

# Color TV

## Directions for Use



Important!  
Return your  
Warranty  
Registration Card  
within 10 days.  
See why inside.



### **Need help? Call us!**

*Philips representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!*

**CALL US BEFORE YOU CONSIDER  
RETURNING THE PRODUCT.**

**1-800-531-0039**

or

**Visit us on the web at  
[www.philips.com](http://www.philips.com)**

*Let's make things better.*



# PHILIPS

# Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

## Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

## Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

## Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

**Congratulations on your purchase, and welcome to the "family!"**

# PHILIPS



**Dear PHILIPS product owner:**

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome—and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford  
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

## Know these safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.


**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

**ATTENTION:** Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

**PHILIPS** Visit our World Wide Web Site at <http://www.philips.com>

# IMPORTANT SAFETY INSTRUCTIONS

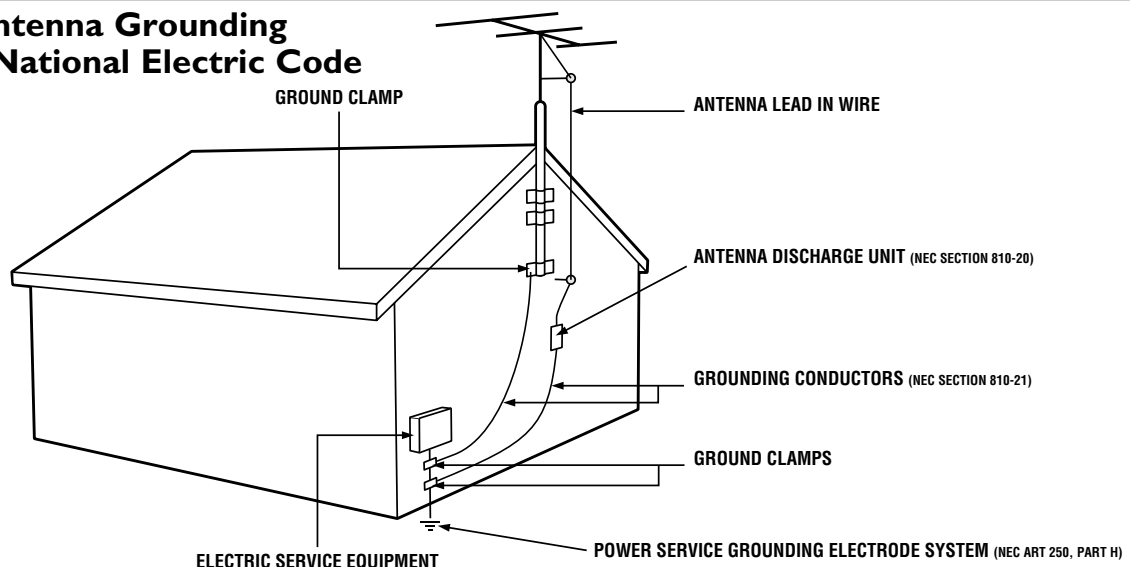
## Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org)
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
  - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
  - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
  - Install all batteries correctly, with + and - aligned as marked on the unit.
  - Do not mix batteries (old and new or carbon and alkaline, etc.).
  - Remove batteries when the unit is not used for a long time.

**Note to the CATV system installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### Example of Antenna Grounding as per NEC - National Electric Code



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**NOTE:** It is possible that this owner's manual may be used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require you contacting your dealer or requesting service.

*Here are a few of the features built into your new Television:*

**QuadraSurf™** A remote control feature that allows you to store and view up to ten of your favorite channels per button (4 buttons - 40 channels total). Can be set to hold movie, sports, news channels, etc., or add the audio/video channels for a quick source function to swap between your external accessory devices.

**Active Control™** continuously measures and corrects all incoming signals to help provide the best picture quality. This feature monitors and corrects both the sharpness control and noise reduction control.

**AutoLock™** feature allows you to block the viewing of certain channels or external audio/video connections where you might not want your children viewing inappropriate material.

**Infrared Remote Control** works your TV set and some accessory devices which allows programming certain features with the press of one button.

**Standard broadcast (VHF/UHF) or Cable TV (CATV)** channel capability with stereo sound.

**Closed Captioning** allows the viewer to read TV program dialogue or voice conversations as on-screen text.

**Automatic Programming of Channels** for quick and easy selection of favorite stations available in your area.

**On-screen Features** (in either English or Spanish) show helpful messages for setting of TV controls.

**Audio/Video Jackpanel** located on the back and side of the television for direct connections when using audio/video accessory devices. these Jacks can provide improved quality TV picture and sound playback.

**Expand 4:3** will allow you to expand the "letterbox" image produced by certain DVD players to fill the entire TV screen.

**Sleptimer** automatically turns the TV OFF at preset times.

**AutoPicture™** allows you to set the picture color, tint, contrast, etc. for various types of programming such as Sports, Movies, Personal, Weak Signals or Multi Media with the push of one button.

**AutoSound™** controls allow you to set the sound controls for various types of listening programs such as Personal (sound controls the way you set them), Theater, Music, or Voice with the push of one button.

**Treble Boost, Bass Boost, and Balance** controls to enhance the television's sound.

## END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed.

Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.

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# HOW TO USE THE LANGUAGE CONTROL



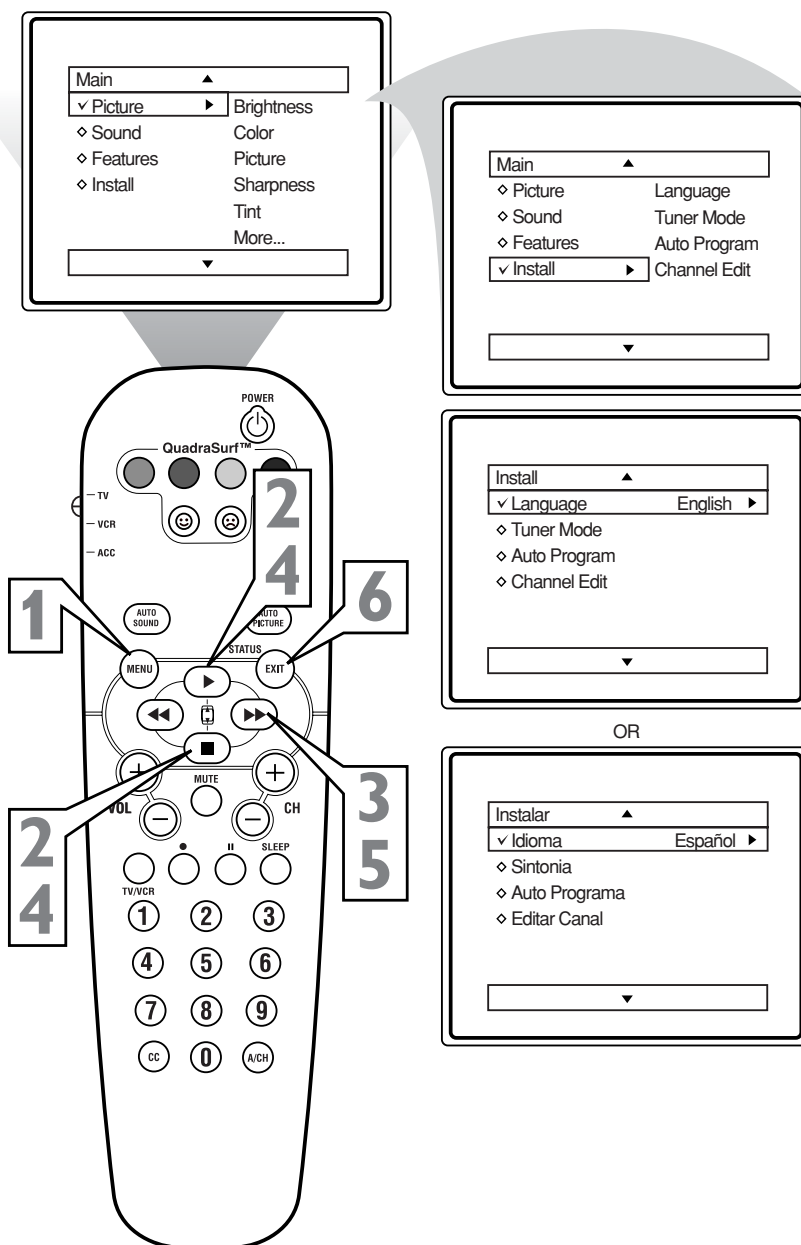
*For our Spanish speaking TV owners an on-screen LANGUAGE option is present. With the LANGUAGE control you can set the TV's on-screen menu to be shown in either English or Spanish.*

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons to scroll through the on-screen menu until the word **INSTALL** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **INSTALL** menu features.
- 4** Press **CURSOR UP** or **DOWN** buttons to scroll the Install features until the word **LANGUAGE** is highlighted.
- 5** Press the **CURSOR RIGHT** button repeatedly to select **ENGLISH** or **ESPAÑOL** (Spanish).
- 6** When finished, press the **STATUS** /**EXIT** button to remove the menu from the TV's screen.

## HELPFUL HINT

The Language control only makes the TV's on-screen MENU items appear in English or Spanish text.

It does not change the other on-screen text features such as Closed Caption (CC) TV shows.





## How to Use the TUNER MODE CONTROL

*The TUNER MODE control allows you to change the TV's signal input to either ANTENNA, CABLE or AUTO mode. It's important for the TV to know what type of signal to look for. (From a Cable TV signal or a normal Antenna signal.) In the AUTO mode, when the AUTO PROGRAM feature is activated, the TV will automatically choose the correct mode.*

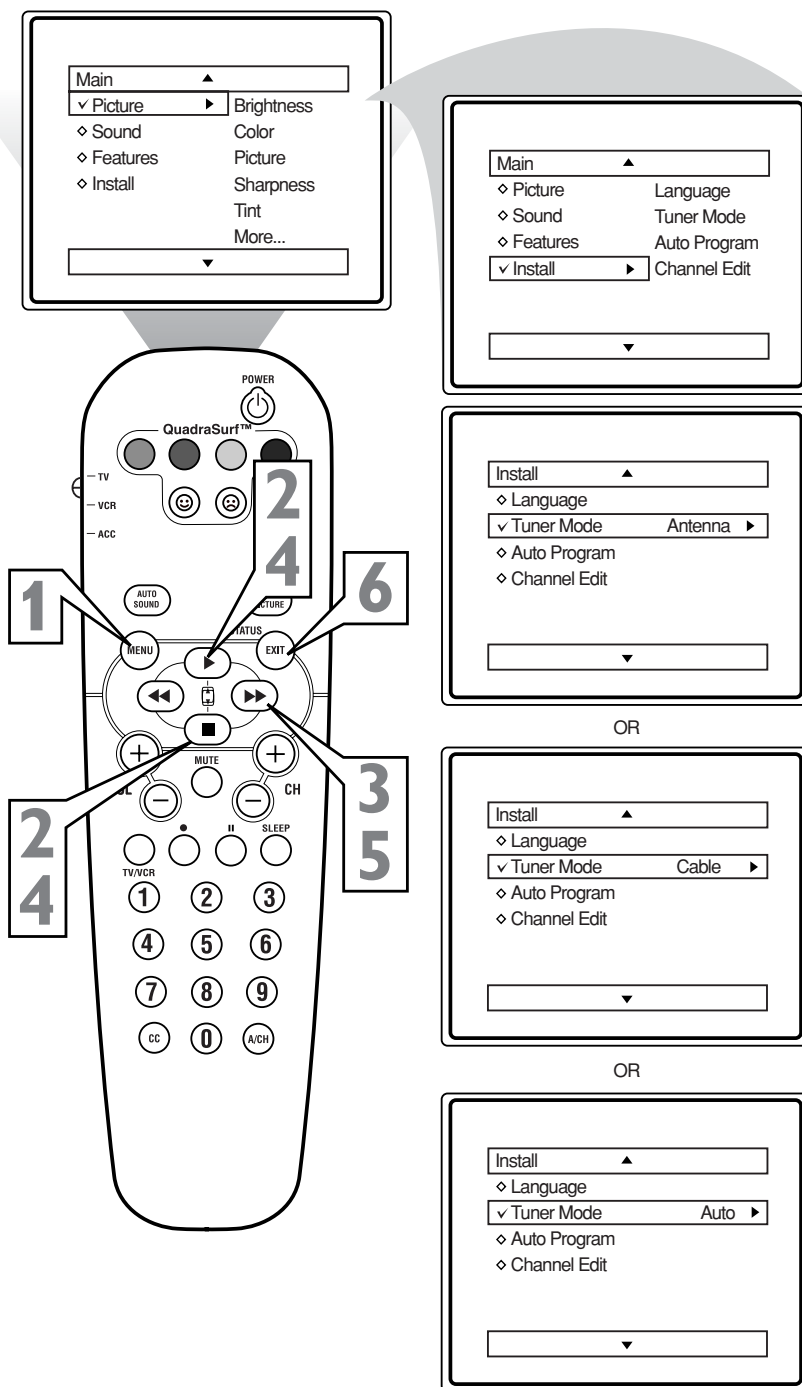
- 1 Press the MENU button** on the remote to show the on-screen menu.
- 2 Press the CURSOR UP ► or DOWN ■ buttons** to scroll through the on-screen menu until the word **INSTALL** is highlighted.
- 3 Press the CURSOR RIGHT ►► button** to display the **INSTALL** menu features.
- 4 Press CURSOR UP ► or DOWN ■ buttons** to scroll the Install features until the words **TUNER MODE** is highlighted.
- 5 Press the CURSOR RIGHT ►► button** to select either **ANTENNA**, **CABLE**, or **AUTO** mode.
- 6 When finished, press the STATUS /EXIT button** to remove the on-screen menu from the TV's screen.

### HELPFUL HINT

When **CABLE** is selected, channels 1-125 are available.

When **ANTENNA** is selected, channels 2-69 are available.

When **AUTO** is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the **AUTO PROGRAM** feature is activated.



# HOW TO AUTOMATICALLY PROGRAM CHANNELS



*Your TV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL (+), (-) buttons are pressed.*

*Note: Make sure the antenna or cable signal connection has been completed before AUTO PROGRAM is activated.*

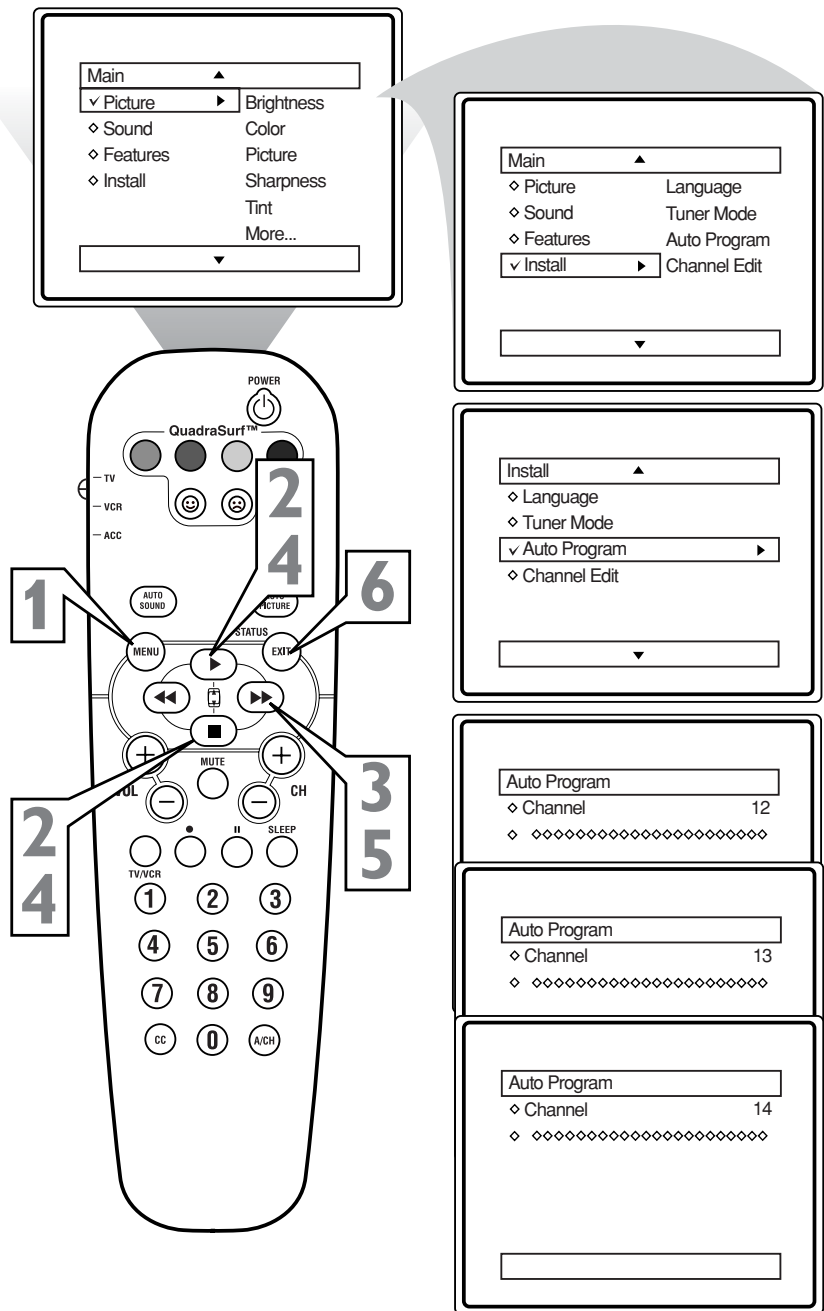
- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons to scroll through the on-screen menu until the word **INSTALL** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **INSTALL** menu features.
- 4** Press **CURSOR UP** or **DOWN** buttons to scroll the Install features until the words **AUTO PROGRAM** are highlighted.
- 5** Press the **CURSOR RIGHT** button to start the Auto Program scanning of channels. Auto Programming will store all available channels in the TV's memory then tune to the lowest available channel when done.
- 6** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

## HELPFUL HINT

When CABLE is selected, channels 1-125 are available.

When ANTENNA is selected, channels 2-69 are available.

When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated.

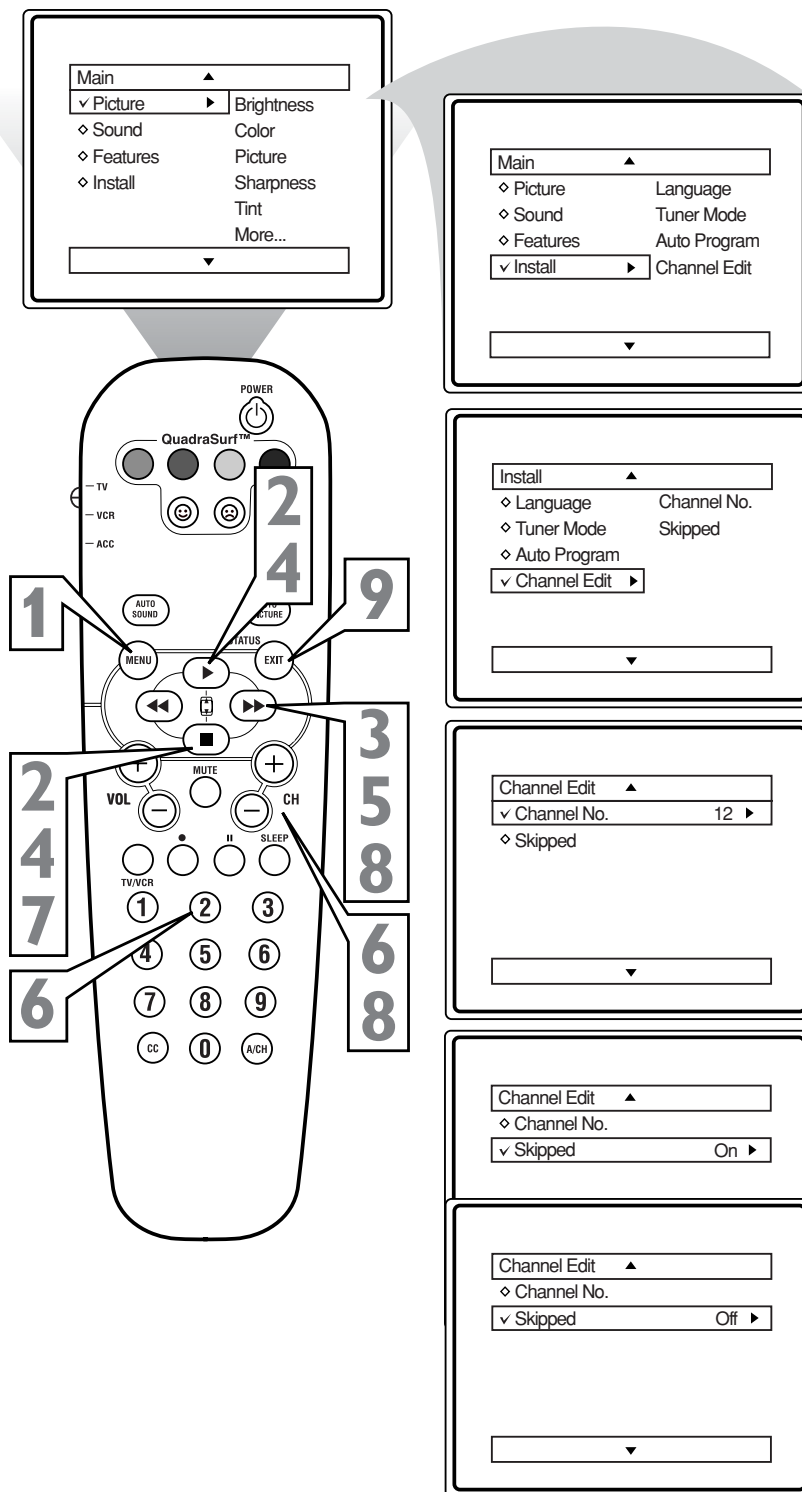




## HOW TO ADD OR DELETE CHANNELS

*Channel Edit makes it easy for you to ADD or DELETE channels from the list of channels stored in the TV's memory.*

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons to scroll through the on-screen menu until the word **INSTALL** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **INSTALL** menu features.
- 4** Press the **CURSOR UP** or **DOWN** buttons to scroll the Install features until the words **CHANNEL EDIT** are highlighted.
- 5** Press the **CURSOR RIGHT** button to display the **CHANNEL EDIT** options.
- 6** With the **CHANNEL EDIT** options displayed, and **CHANNEL NO.** highlighted; enter the channel number (with the **NUMBERED** or the **CH +** or **-** buttons) you wish to add (Skipped OFF), or delete (Skipped ON) from the TV's memory.
- 7** Using the **CURSOR DOWN** button, scroll the menu to highlight the word **SKIPPED**.
- 8** Now use the **CURSOR RIGHT** button to toggle between **ON** or **OFF**. If **ON** is selected the channel is skipped when scrolling channels with the **CH +** or **-** buttons. If **OFF** is selected the channel is not skipped when scrolling channels with the **CH +** or **-** buttons.
- 9** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.





# How to Use the Picture Adjustment Controls



To adjust your TV picture controls, select a channel and follow the steps shown below:

- 1** Press the **MENU** button on the remote to display the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** buttons until the word **PICTURE** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **PICTURE** menu features.
- 4** Press **CURSOR UP** or **DOWN** buttons to scroll the Picture features and highlight the control you wish to adjust (Brightness, Color, Picture, Sharpness, Tint, Color Temp., DNR, or Contrast +).
- 5** Press the **CURSOR RIGHT** or the **CURSOR LEFT** buttons to adjust the selected control or to make selections for the chosen control.
- 6** Press the **CURSOR UP** or **DOWN** buttons to select and adjust other Picture Menu controls.
- 7** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

## HELPFUL HINT

**BRIGHTNESS:** Press the **RIGHT** or **LEFT** buttons until darkest parts of the picture are as bright as you prefer.

**COLOR:** Press the **RIGHT** or **LEFT** buttons to add or eliminate color.

**PICTURE:** Press the **RIGHT** or **LEFT** buttons until lightest parts of the picture show good detail.

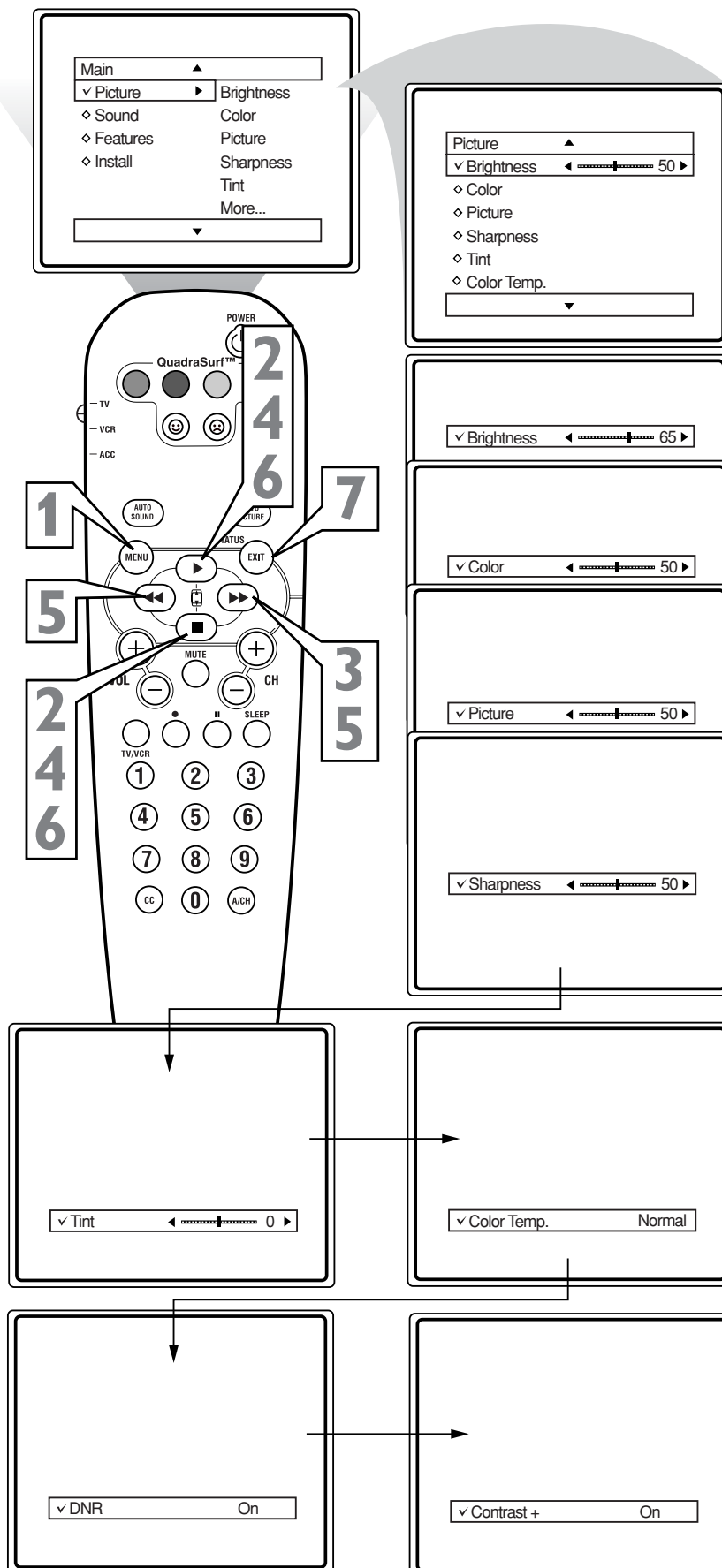
**SHARPNESS:** Press the **RIGHT** or **LEFT** buttons to improve detail in the picture.

**TINT:** Press the **RIGHT** or **LEFT** buttons to obtain natural skin tones.

**COLOR TEMP:** Press the **RIGHT** or **LEFT** buttons to select **NORMAL**, **COOL**, or **WARM** picture preferences. (**NORMAL** will keep the whites, white; **COOL** will make the whites, bluish; and **WARM** will make the whites, reddish.)

**DNR:** Press the **RIGHT** or **LEFT** buttons to turn **DNR ON** or **OFF**. Dynamic Noise Reduction helps to eliminate "noise" from the picture.

**Contrast +:** Press the **RIGHT** or **LEFT** buttons to turn **Contrast + ON** or **OFF**. When **ON**, this control will optimize the picture contrast for improved picture clarity.





## HOW TO USE THE SOUND ADJUSTMENT CONTROLS

Besides the normal volume level control, your TV also has Treble, Bass, Balance, AVL (automatic volume leveler), Incredible Surround, Ultra Bass, and Sound (Stereo /Mono) controls.

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ▣ button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to display the **SOUND** menu features.
- 4 Press the **CURSOR UP** ► or **CURSOR DOWN** ▣ button to scroll the Sound menu features until the control you wish to change is highlighted (**Treble**, **Bass**, **Balance**, **AVL**, **Incr. Surround**, **Ultra Bass**, **SAP**, or **Sound**).
- 5 Press the **CURSOR RIGHT** ►► or **LEFT** ◄◄ button to turn the adjust or turn the control On or Off.
- 6 When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

### HELPFUL HINT

**TREBLE:** Press the **Cursor Right** or **Left** buttons to adjust the control. The control will enhance the high frequency sounds.

**BASS:** Press the **Cursor Right** or **Left** buttons to adjust the control. The control will enhance the low frequency sounds.

**BALANCE:** Press the **Cursor Right** or **Left** buttons to adjust the level of sound coming from the left and right speakers.

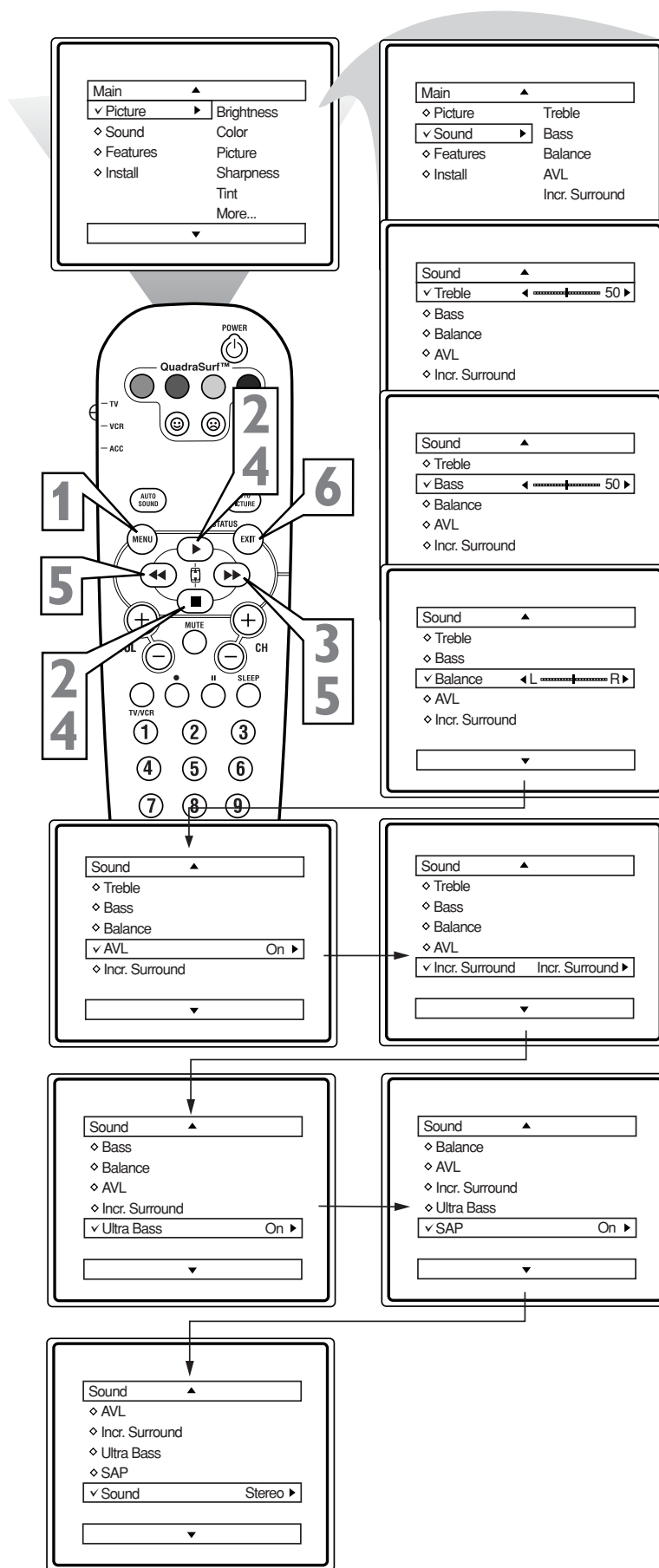
**AVL:** (Auto Volume Leveler) Press the **Cursor Right** or **Left** buttons to turn the control On or Off. When On, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

**INCR. SURROUND:** Press the **Cursor Right** or **Left** buttons to select between Incr. Surround or Stereo settings (If Stereo), or select Spatial or Mono (If Mono).

**ULTRA BASS:** Press the **Cursor Right** or **Left** buttons to turn Ultra Bass On or Off. Ultra Bass will enhance the low frequency sound.

**SAP:** Press the **Cursor Right** or **Left** buttons to turn SAP (Secondary Audio Program) On or Off. If the channel tuned is not broadcasting a SAP signal, "Not Available" will appear as the option when On is selected.

**SOUND:** Press the **Cursor Right** or **Left** buttons to select between Stereo or Mono settings. Note: If Stereo is not present on a selected show and the TV is placed in the Stereo mode, the sound coming from the TV will remain in the Mono mode.



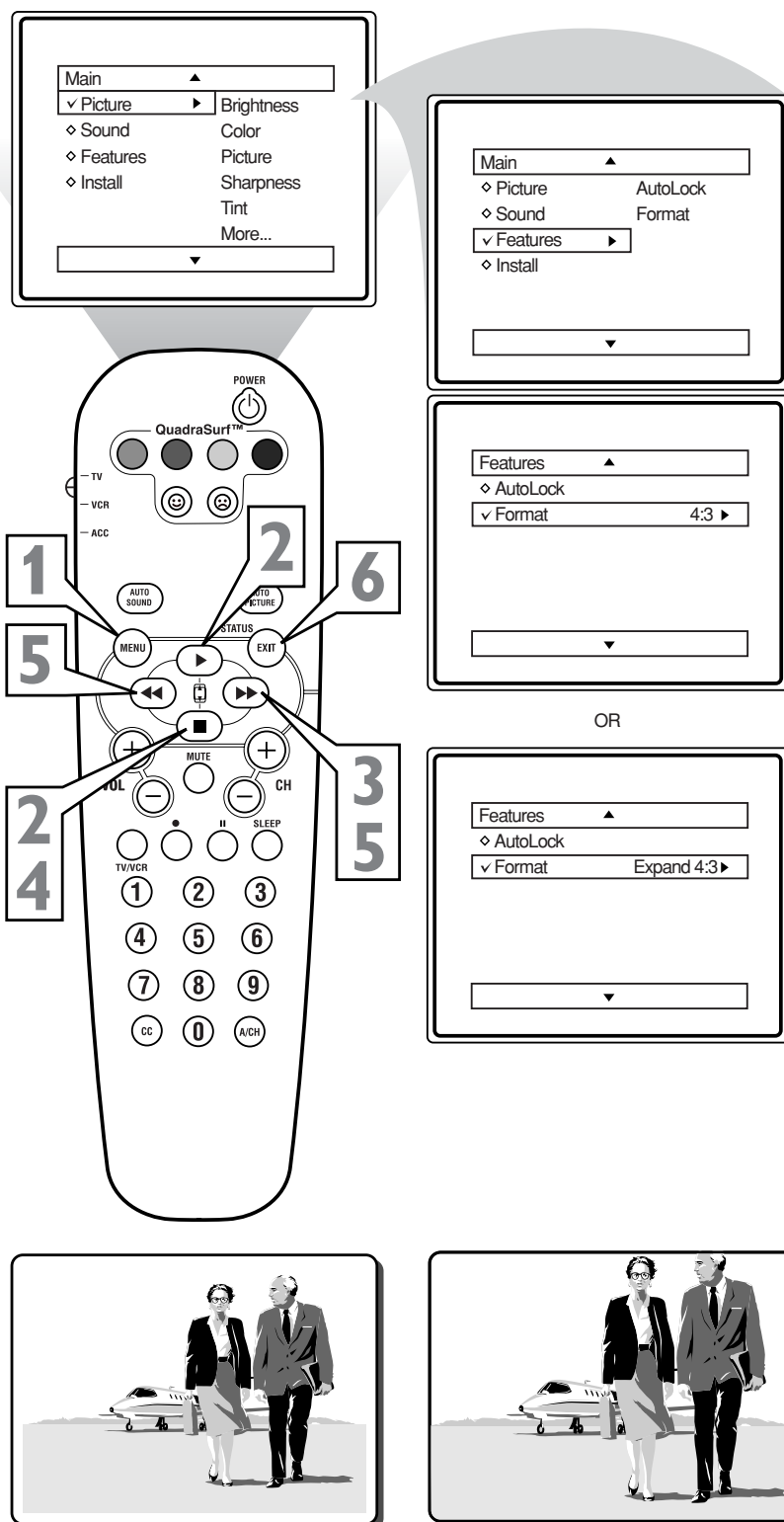
# HOW TO USE THE FORMAT CONTROL (EXPAND 4:3)



Many times while watching movies from a DVD player the image is shown in "letter box" format. This is the format that is shown in movie theaters. When shown on a TV screen, the image will have areas of black on top and bottom of the screen. The **FORMAT Control** can expand the picture to fill the entire TV screen.

- 1** Press the **MENU** button on the remote to display the on-screen menu.
- 2** Press the **CURSOR DOWN** button until the word **FEATURES** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **FEATURES** menu options (AutoLock or Format).
- 4** Press the **CURSOR DOWN** button until the word **FORMAT** is highlighted.
- 5** Press the **CURSOR RIGHT** or **CURSOR LEFT** buttons to select one of the two options 4:3 or Expand 4:3.
  - 4:3** - Standard format for the TV.
  - Expand 4:3** - Enlarges the picture to fill out the entire screen area, eliminating the "letter box" effect.
- 6** When finished, press the **STATUS/EXIT** button to remove the menu from the TV's screen.

**Note:** The Expand 4:3 format can also be activated using the **CURSOR UP** or **CURSOR DOWN** buttons when the onscreen menu is not being displayed. Pressing these buttons will toggle the standard 4:3 format and the Expand 4:3 format.



4:3

Expand 4:3



## UNDERSTANDING THE AUTOLOCK™ CONTROLS

The AutoLock™ feature is an integrated circuit that receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of viewing children may watch.

Over the next few pages you'll learn how to block channels and certain rated programming. Below is a brief explanation of some terms and ratings you will find in the AutoLock feature.

**AutoLock™ offers various BLOCKING controls from which to choose:**

**Access Code:** An Access Code must be set to prevent children from unblocking questionable programming.

**Channel Block:** Individual channels including the A/V inputs can be blocked.

**Clear All:** Allows you clear all channels being blocked from your viewing set with the Channel Block Control.

**Block All:** Allows you to block ALL channels and A/V inputs at one time.

**Movie Ratings:** Block programming based on ratings patterned by the Motion Pictures Association of America.

**TV Ratings:** Block programming based on standard TV ratings set by TV broadcasters.

To learn more about the Motion Picture Ratings and the TV Ratings, refer to the definitions listed on the columns to the right.

**Press the STATUS/EXIT button twice to display the AutoLock review screen.** This screen shows what is activated within the AutoLock settings.

| Movie Rating | TV Rating |
|--------------|-----------|
| G            | TV-Y      |
| PG           | TV-Y7     |
| PG-13        | TV-G      |
| --           | --        |
| --           | --        |
| --           | --        |
| Unrated      | On        |
| No Rating    | Off       |

| Movie Rating |    |
|--------------|----|
| √ G          | On |
| ◇ PG         |    |
| ◇ PG-13      |    |
| ◇ R          |    |
| ◇ NC-17      |    |
| ◇ X          |    |

### MOVIE RATINGS (MOTION PICTURE ASSOCIATION OF AMERICA)

**G: General Audience** - All ages admitted. Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

**PG: Parental Guidance Suggested** - This programming contains material that parents may find unsuitable for younger children.) It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

**PG-13: Parents Strongly Cautioned** - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

**R: Restricted** - This is programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.

**NC-17: No one under the age of 17 will be admitted.** - This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.

**X: Adults Only** - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

| TV Rating |    |
|-----------|----|
| √ TV-Y    | On |
| ◇ TV-Y7   |    |
| ◇ TV-G    |    |
| ◇ TV-PG   |    |
| ◇ TV-14   |    |
| ◇ TV-MA   |    |

### TV PARENTAL GUIDELINES (TV BROADCASTERS)

**TV-Y** **TV-Y** - (All children -- This program is designed to be appropriate for all children.) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

**TV-Y7** **TV-Y7** - (Directed to Older Children -- This program is designed for children age 7 and above.) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

**TV-G** **TV-G** - (General Audience -- Most parents would find this program suitable for all ages.) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

**TV-PG** **TV-PG** - (Parental Guidance Suggested -- This program contains material that parents may find unsuitable for younger children.) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

**TV-14** **TV-14** - (Parents Strongly Cautioned -- This program contains some material that many parents would find unsuitable for children under 14 years of age.) This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

**TV-MA** **TV-MA** - (Mature Audience Only -- This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

# SETTING UP AN AUTOLOCK™ ACCESS CODE



Over the next few pages you'll learn how to block channels and get a better understanding of the rating terms for certain programming.

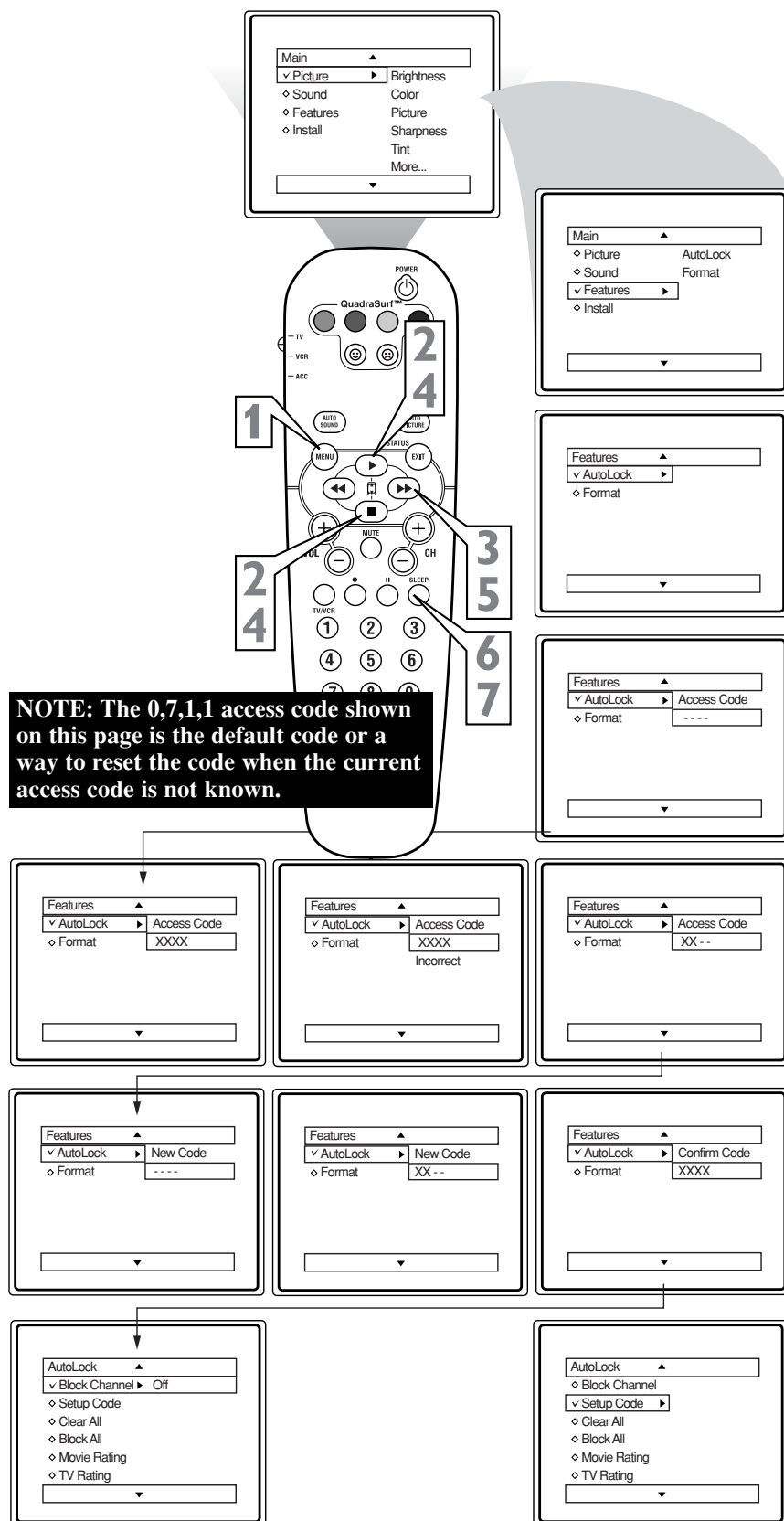
First, let's start by learning how to set a personal access code:

- 1** Press the **MENU** button on the remote to display the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4** Press the **CURSOR UP** or **DOWN** button until the words **AUTOLOCK** are highlighted.
- 5** Press the **CURSOR RIGHT** button. The screen will read, "ACCESS CODE - - - -."
- 6** Using the **NUMBERED** buttons, enter **0, 7, 1, 1**. "XXXX" appears on the Access Code screen as you press the numbered buttons.  
 "INCORRECT CODE" will appear on the screen, and you will need to enter **0, 7, 1, 1** again.
- 7** The screen will ask you to enter a "New Code." Enter a "new" 4 digit code using the **NUMBERED** buttons. The screen will then ask you to **CONFIRM** the code you just entered. Enter your new code again. "XXXX" will appear when you enter your new code and then display the AutoLock menu options.

Proceed to the next page to learn more...

## HELPFUL HINT

Parents - it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code changes, and you didn't change it, then you know it's been altered by someone else and blocked channels have been viewed.





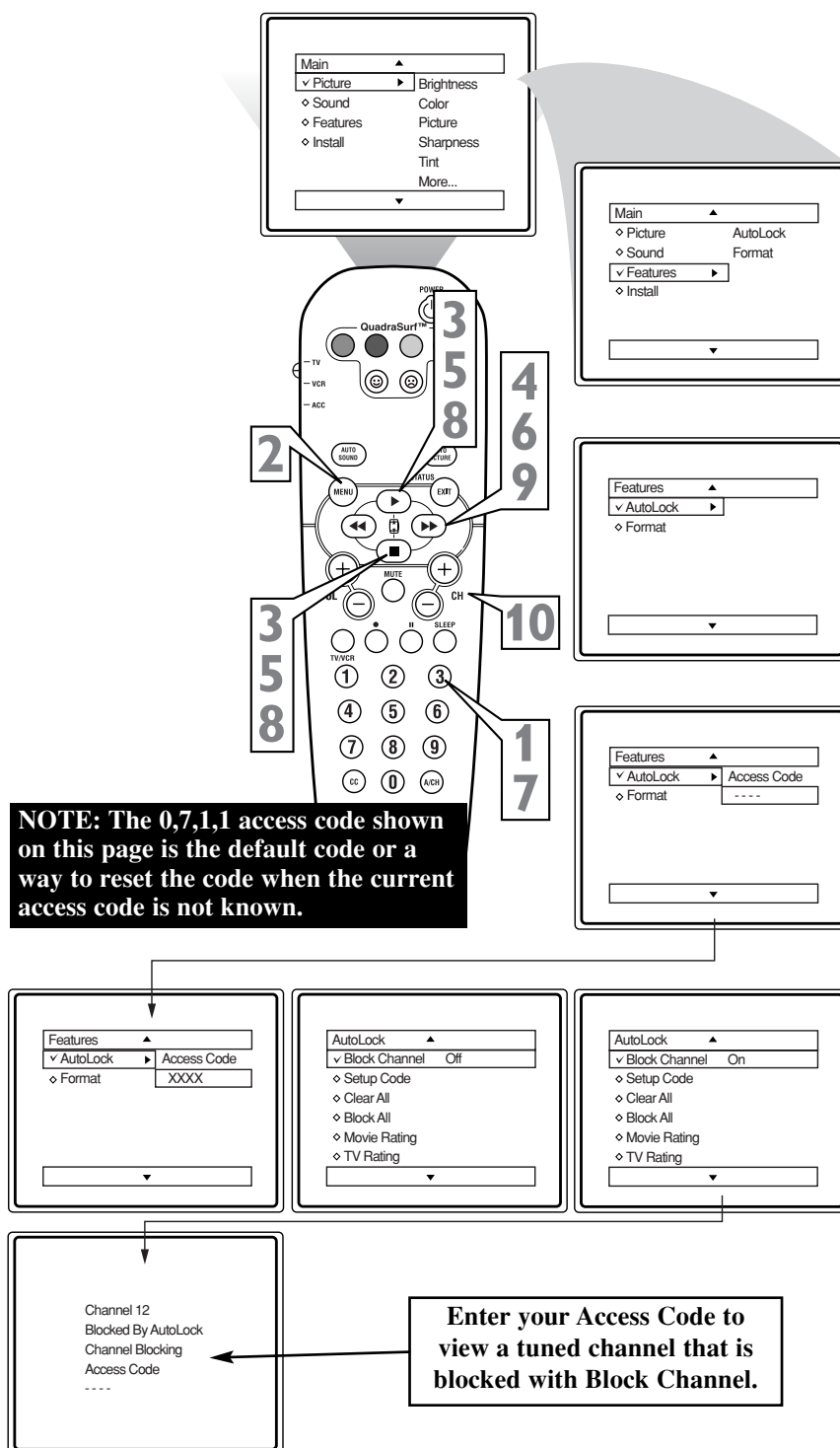


## How to BLOCK CHANNELS

After your personal access code has been set (see previous page), you are now ready to select the channels you want to block out or censor.

- 1** Press the **NUMBERED (or CH +, -)** buttons to tune the channel you wish to block or censor.
- 2** Press the **MENU** button on the remote to show the on-screen menu.
- 3** Press the **CURSOR UP ►** or **DOWN ▼** button until the word **FEATURES** is highlighted.
- 4** Press the **CURSOR RIGHT ►►** button to display the **FEATURES** menu options.
- 5** Press the **CURSOR UP ►** or **DOWN ▼** button until the words **AutoLock** are highlighted.
- 6** Press the **CURSOR RIGHT ►►** button. "ACCESS CODE" will appear on the screen.
- 7** Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 8** Press the **CURSOR UP ►** or **DOWN ▼** buttons until the words **BLOCK CHANNELS** are highlighted.
- 9** Press the **CURSOR RIGHT ►►** button to turn blocking ON or OFF for that channel. When ON is selected the channel will be blocked.
- 10** Press the **CH +** or **-** button to select other channels you wish to block. Repeat step 9 to block the new channel.

**NOTE:** The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.



### HELPFUL HINT

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV has been turned off. When the TV is powered back ON, the previously blocked channels will be blocked again.

# HOW TO CLEAR ALL BLOCKED CHANNELS AT THE SAME TIME



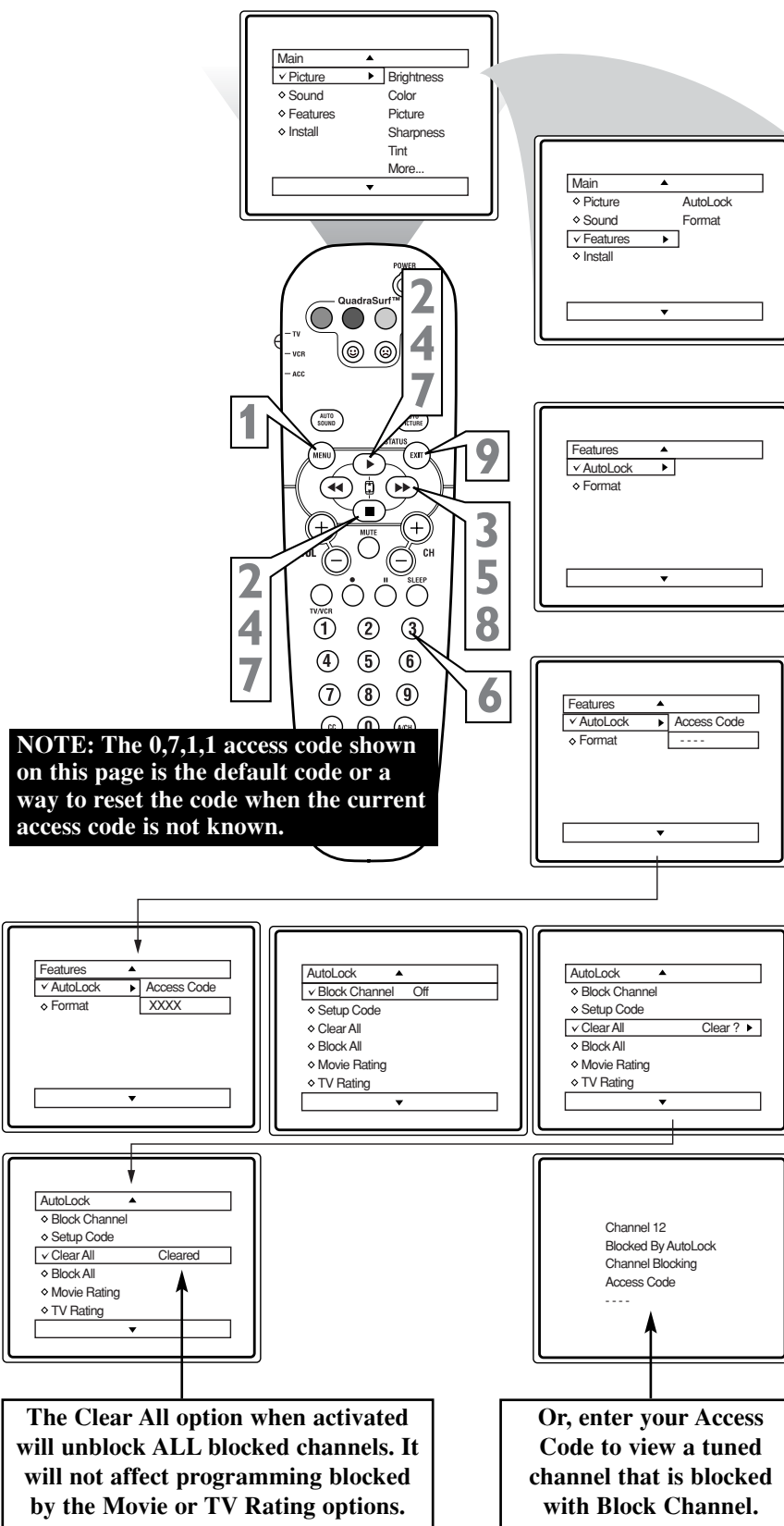
After blocking specific channels there may come a time when you want to clear all the channels so they can be viewed. The following steps explain how to **CLEAR ALL** blocked channels.

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4** Press the **CURSOR UP** or **DOWN** button until the words **AutoLock** are highlighted.
- 5** Press the **CURSOR RIGHT** button.
- 6** Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 7** Press the **CURSOR UP** or **DOWN** button until the words **CLEAR ALL** are highlighted.
- 8** Press the **CURSOR RIGHT** button to clear all blocked channels. The Clear All option will read, "Cleared."
- 9** When finished, press the **STATUS /EXIT** button to remove the menu from the TV's screen.

## HELPFUL HINT

If you tune to a blocked channel and enter your Access Code to view the channel, **ALL** blocked channels will be viewable until the TV is powered OFF and then turned back ON. When the TV is powered back ON, the previously blocked channels will be blocked again.

CLEAR ALL will not work with the Movie and TV Ratings. These options must be reset individually.





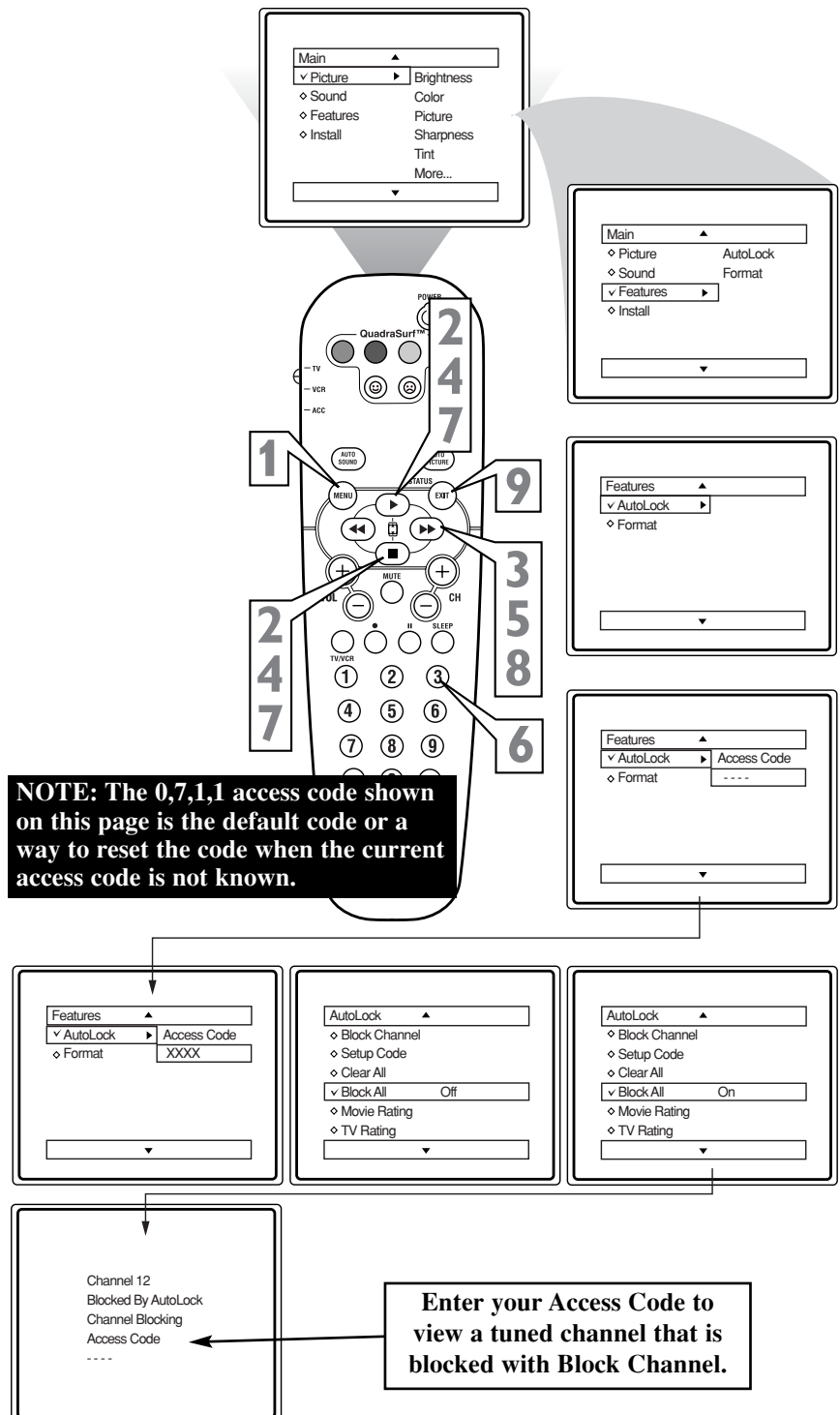
## How to BLOCK ALL CHANNELS AT THE SAME TIME

*There may come a time when you want to Block All the television's channels. Maybe you don't want your children to watch TV for a given time. With the Block All control, ALL available channels (including the A/V Inputs) can be set to block at the same time.*

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4** Press the **CURSOR UP** or **DOWN** button until the words **AutoLock** are highlighted.
- 5** Press the **CURSOR RIGHT** button.
- 6** Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 7** Press the **CURSOR UP** or **DOWN** button until the words **BLOCK ALL** are highlighted.
- 8** Press the **CURSOR RIGHT** button to turn Block All ON or OFF. When ON is selected, ALL available channels will be blocked.
- 9** When finished, press the **STATUS/EXIT** button to remove the menu from the screen.

### HELPFUL HINT

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV has been turned off. When the TV is powered back ON, the previously blocked channels will be blocked again.





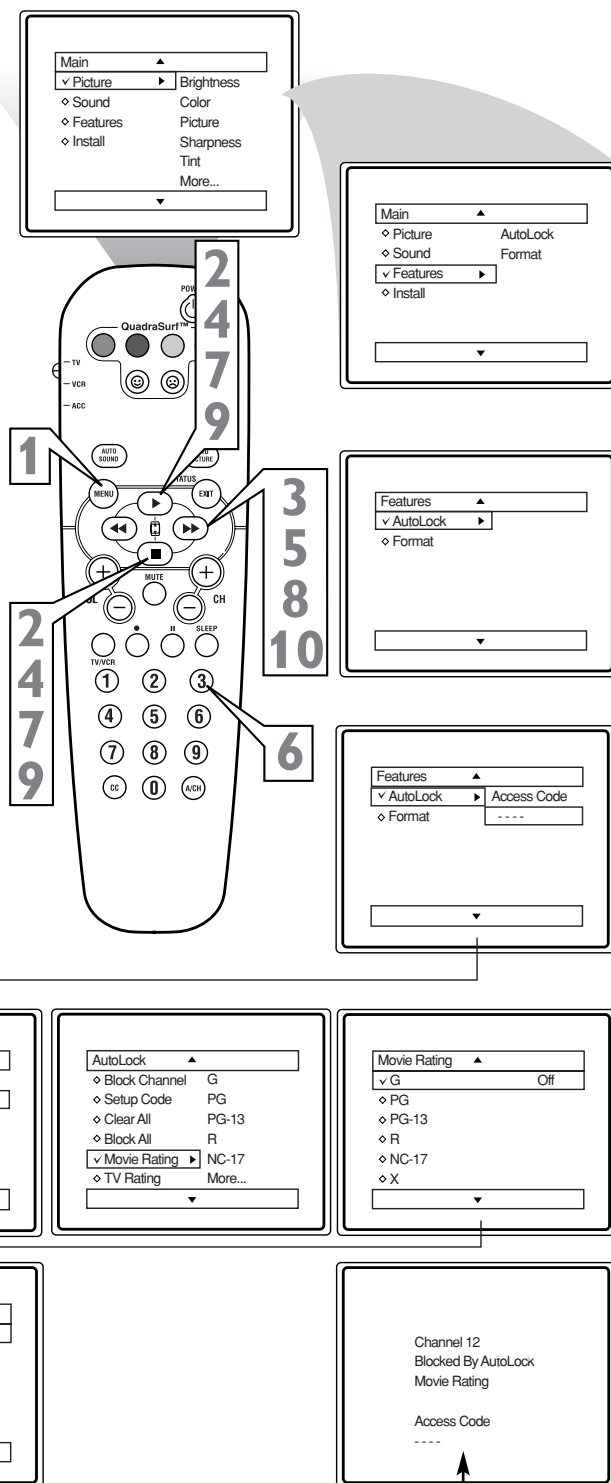
# BLOCKING PROGRAMS BASED ON MOVIE RATINGS



There are two types of program ratings within the AutoLock™ feature. One is based on the Movie Industry ratings while the other is based on the TV Industry ratings. Both can be used to block or censor programming that has been rated in either manner.

Let's first look at the Movie Rating options of AutoLock™:

- 1 Press the **MENU** button on the remote to display the on-screen menu.
- 2 Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3 Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4 Press the **CURSOR UP** or **DOWN** button until **AutoLock** is highlighted.
- 5 Press the **CURSOR RIGHT** button. The screen will prompt you for your Access Code.
- 6 Using the **NUMBERED** buttons on the remote, enter your 4 digit Access Code. The AutoLock menu options will be displayed.
- 7 Press the **CURSOR UP** or **DOWN** button to highlight the words **MOVIE RATINGS**.
- 8 Press the **CURSOR RIGHT** button to display the **MOVIE RATINGS** options (G, PG, PG-13, R, NC17, or X).
- 9 Press the **CURSOR UP** or **DOWN** button to highlight any of the Movie Ratings options. When highlighted, all these options can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing).
- 10 Use the **CURSOR RIGHT** button on the remote to turn the rating option ON or OFF.



## HELPFUL HINT

When a rating is set to block, all higher ratings will be automatically blocked as well. (Example: If the PG-13 rating is set to block, the R, NC-17, and X ratings will also be blocked.)

**NOTE:** The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.

To view a program blocked by the Movie Rating options, enter your 4 digit access code. This will disable all blocked Movie Ratings until the TV is powered off and on again. Then the blocking options will be restored.



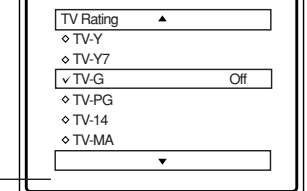
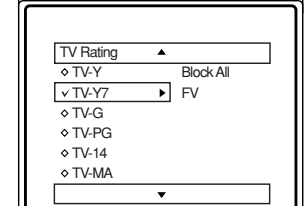
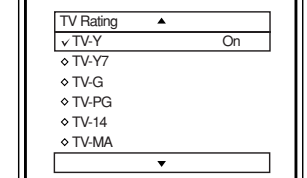
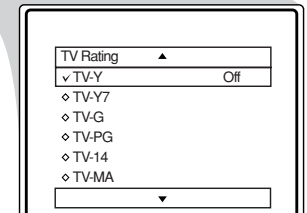
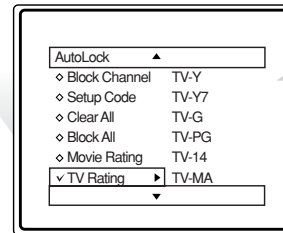
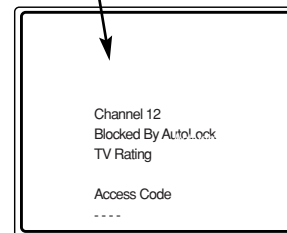
## BLOCKING PROGRAMS BASED ON TV RATINGS

*This portion of the AutoLock™ features cover program ratings based on the TV Industry rating system. This is known as TV Ratings within AutoLock™.*

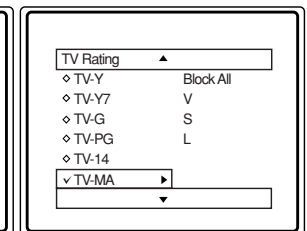
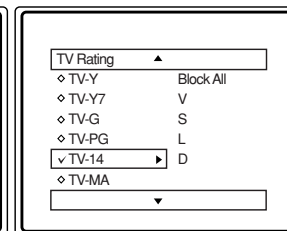
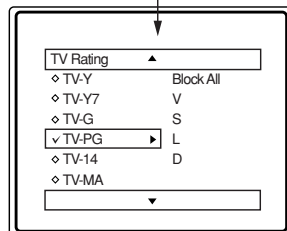
*After selecting the Autolock™ feature and entering your personal access code, the AutoLock™ options screen appears;*

- 1** Scroll the menu using the **CURSOR UP ►** or **DOWN ▼** buttons until the words **TV RATINGS** are highlighted.
- 2** Press the **CURSOR RIGHT ►►** button to display the TV Ratings (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA). When highlighted, the TV-Y and TV-G can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing), of these rated programs.  
The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).
- 3** Press the **CURSOR UP ►** or **DOWN ▼** button to highlight the desired rating.
- 4** Press the **CURSOR RIGHT ►►** button on the remote to turn the TV-Y or TV-G rating ON or OFF. Or, press the **CURSOR RIGHT ►►** button to enter the sub-menus for the TV-Y7, TV-PG, TV-14 or TV-MA ratings.
- 5** If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, press the **CURSOR UP ►** or **CURSOR DOWN ▼** button to select one of the options (Block All, V, S, L, D, or FV).
- 6** Press the **CURSOR RIGHT ►►** button on the remote to turn the option ON or OFF.

To view a program blocked by the TV Rating options, enter your 4 digit access code. This will disable all blocked TV Ratings until the TV is powered off and on again. Then the blocking options will be restored.



**NOTE: The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.**



### TV Ratings and Rating Sub-Menus

When a TV Rating is selected to block, ALL higher ratings will be blocked also.

**TV-Y** - (All children -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

**TV-Y7** - (Directed to Older Children -- *This program is designed for children age 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

**TV-G** - (General Audience -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language and little or no sexual dialogue or situations.

**TV-PG** - (Parental Guidance Suggested -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

**TV-14** - (Parents Strongly Cautioned -- *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

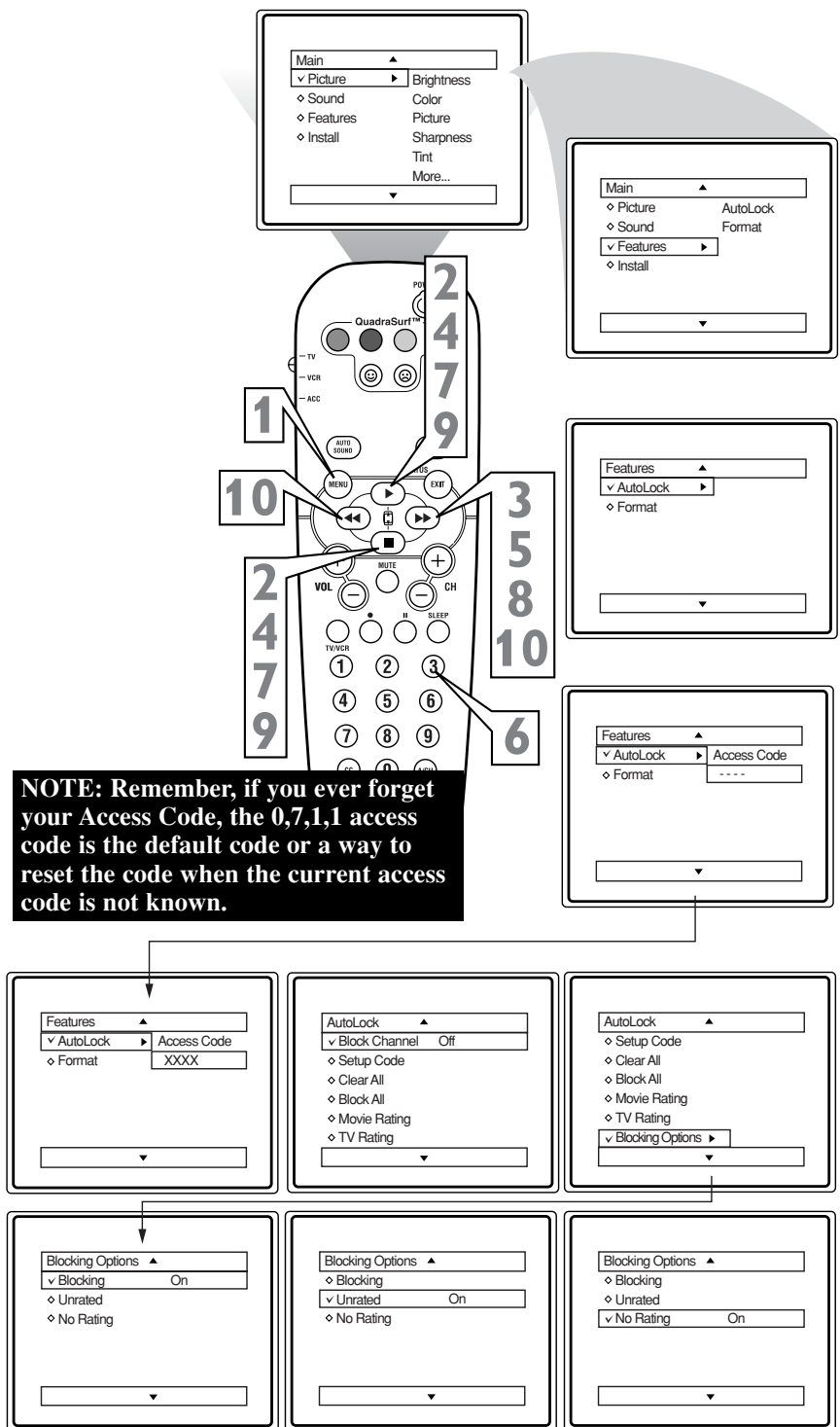
**TV-MA** - (Mature Audience Only -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: crude indecent language (L), explicit sexual situations (S), or graphic violence (V).

## OTHER AUTOLOCK™ BLOCKING OPTIONS



**A**utoLock™ offers the viewer other blocking features as well. With these Blocking Options, the censoring can be turned ON or OFF.

- 1** Press the **MENU** button on the remote to show the on-screen menu.
- 2** Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
- 3** Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
- 4** Press the **CURSOR UP** or **DOWN** button until the words **AutoLock** are highlighted.
- 5** Press the **CURSOR RIGHT** button.
- 6** Enter the correct access code number. “XXXX” shows on the Access Code display as you press the **NUMBERED** buttons. AutoLock menu options will be displayed.
- 7** Press the **CURSOR UP** or **DOWN** buttons until the words **BLOCKING OPTIONS** are highlighted.
- 8** Press the **CURSOR RIGHT** button to display the **Blocking Options (BLOCKING, UNRATED, or NO RATING)** menu.
- 9** Press the **CURSOR UP** or **DOWN** buttons to highlight the desired feature.
- 10** When highlighted, each feature can be turned **ON** or **OFF** using the **CURSOR RIGHT** or **LEFT** buttons on the remote.



### BLOCKING OPTIONS:

**BLOCKING:** This is what might be called the “master switch” for AutoLock™. When in the ON position, ALL blocking/censoring will take place. When in the OFF position, ALL blocking is disabled.

**UNRATED:** ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the BLOCKING feature is set to OFF.

**NO RATING:** ALL programming with NO content advisory data can be blocked if this feature is set to ON and the BLOCKING feature is set to OFF.

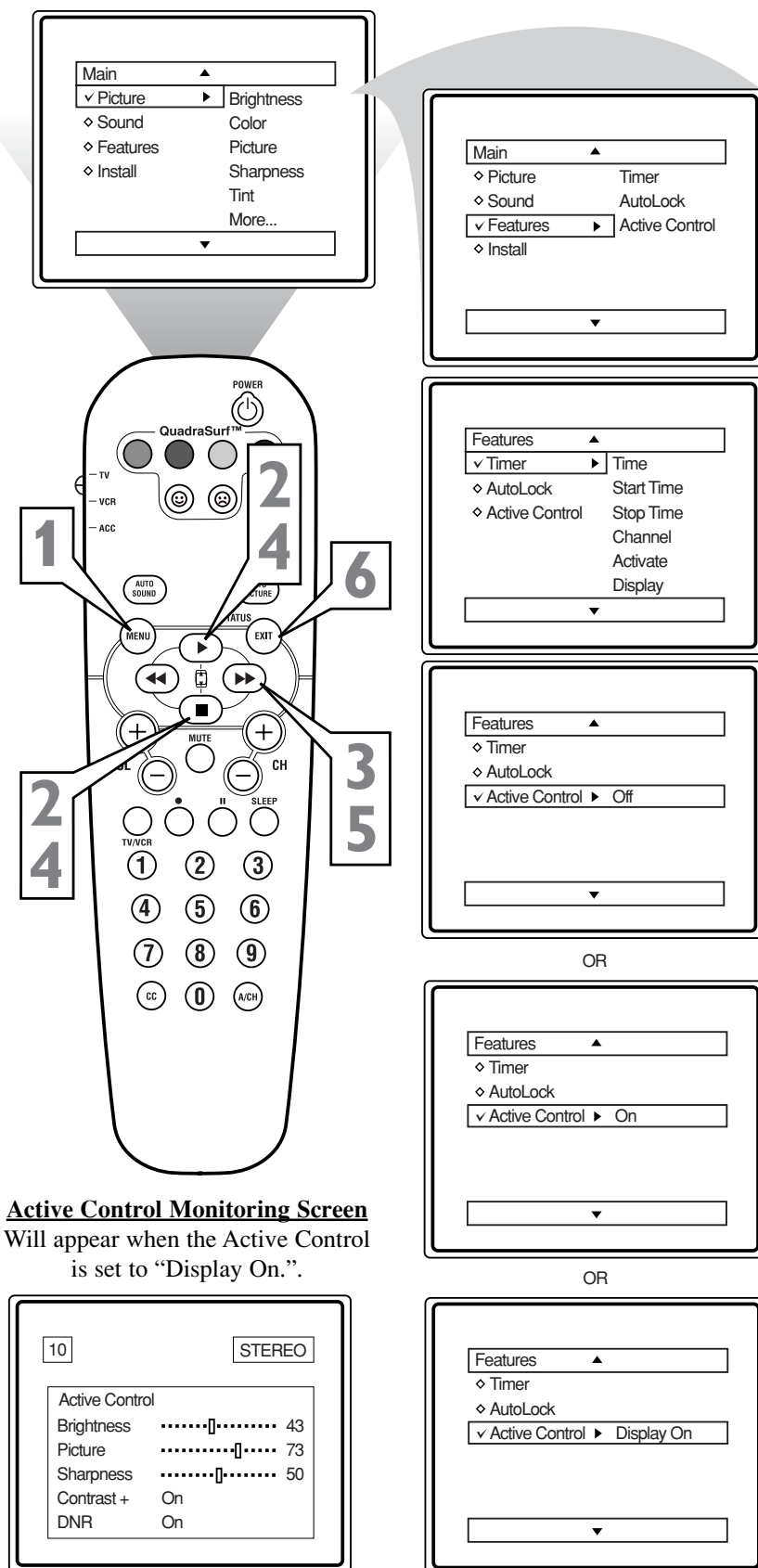


## How to Use the Active Control

The Active Control monitors and adjusts incoming video signals to help provide the best picture quality.

When you choose to turn the Active Control ON, the picture Brightness, Picture, Sharpness, Contrast + and DNR (dynamic noise reduction) features are controlled automatically. Active Control adjusts these picture settings continuously and automatically.

- 1** Press the **MENU** button on the remote to show the on-screen menu.
  - 2** Press the **CURSOR UP** or **DOWN** button until the word **FEATURES** is highlighted.
  - 3** Press the **CURSOR RIGHT** button to display the **FEATURES** menu options.
  - 4** Press the **CURSOR UP** or **DOWN** button until the words **Active Control** are highlighted.
  - 5** Press the **CURSOR RIGHT** button to set the Active Control to Off, On, or Display ON.
- Display On** - When selected, an Active Control monitoring screen will be shown for a few seconds whenever a channel change is made. Within this menu, you can actually see the controls changing to give the best possible picture quality.
- On** - When selected, the Active Control will work to give the viewer the best possible picture, but will not display the monitoring screen when channels are changed.
- Off** - the Active control will not be activated.
- 6** When finished, press the **STATUS** /**EXIT** button to remove the menu from the TV's screen.



## SETTING THE SLEEPTIMER CONTROL



*Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.*

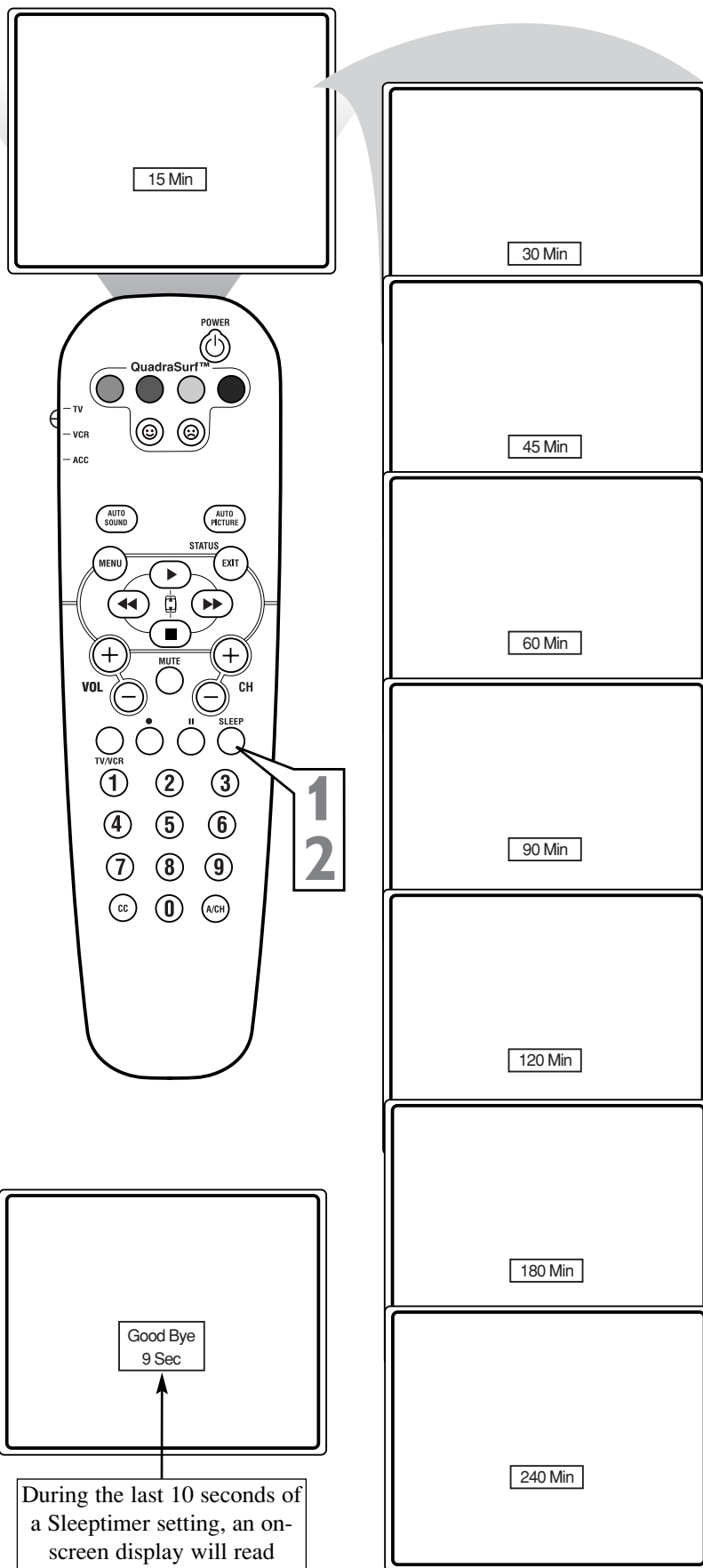
**1 Press the SLEEP button** on the remote control and the SLEEP timer display will appear on the screen.

**2 Press the SLEEP button** repeatedly to pick the amount of time (15, 30, 45, 60, 90, 120, 180 or 240 minutes) before the TV will turn itself off.

An on-screen count down will appear during the last minute before the TV shuts itself off.

### HELPFUL HINT

The on-screen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.



During the last minute of a Sleptimer setting, an on-screen count down will be displayed. Pressing any button during the last minute will cancel the Sleptimer.

During the last 10 seconds of a Sleptimer setting, an on-screen display will read GOOD BYE.



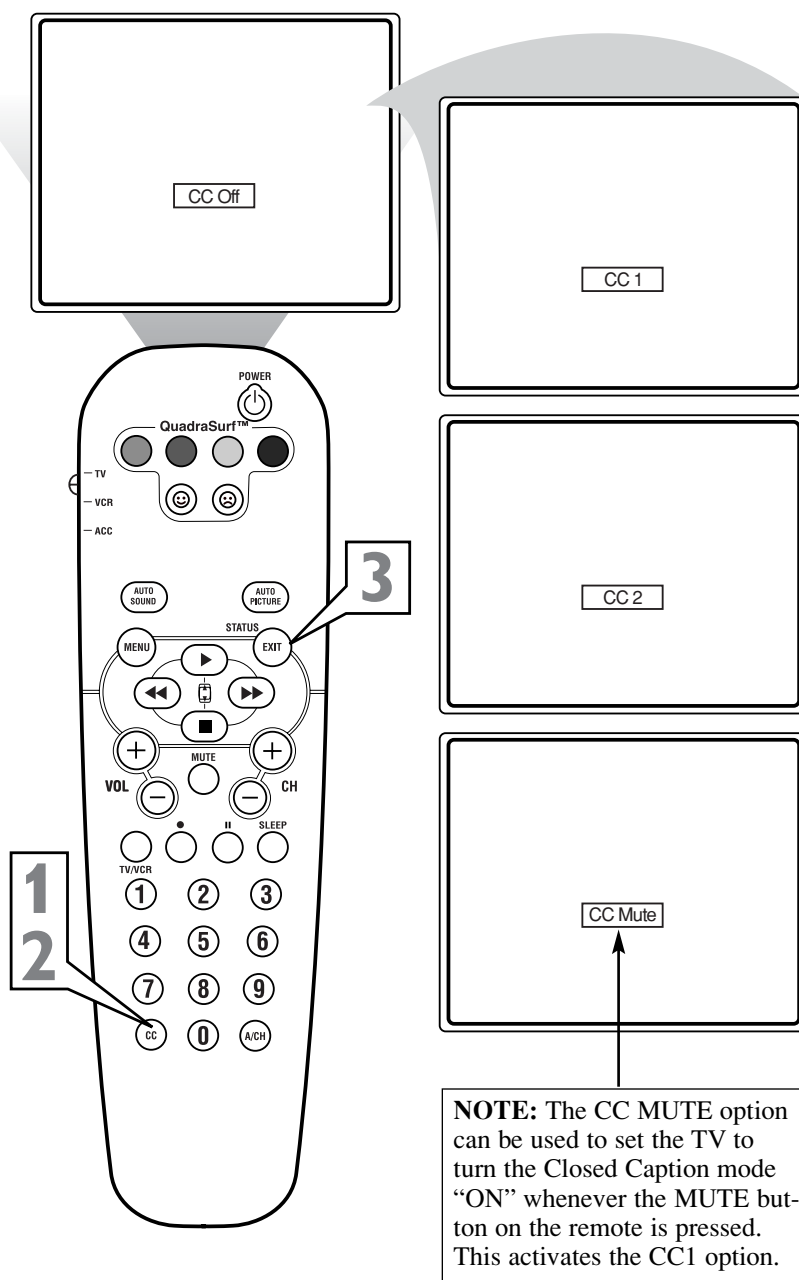
## HOW TO USE THE CLOSED CAPTIONING CONTROL

**C**losed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

- 1 Press the CC button** on the remote to display the current Closed Caption setting.
- 2 Press the CC button repeatedly** to choose from the four Closed Caption options (CC Off, CC 1, CC 2, CC Mute). Dialogue (and descriptions) for the action on the captioned TV program will appear on-screen if the tuned program is broadcasting CC information.
- 3 When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen or let the option time out and disappear from the TV screen.

### HELPFUL HINT

**Not all TV programs and product commercials** are made with Closed Caption (CC) information included. Neither are all Closed Caption modes (CC1, or CC2) necessarily being used during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.





Whether you're watching a movie or a sporting event, your TV has automatic video control settings matched for your current program source or content. The AutoPicture™ feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each AutoPicture™ setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, Color Temperature, DNR and Contrast+ levels.

**1** Press the **AUTO PICTURE** button on the remote control. The current Auto Picture setting will appear in the middle of the screen.

**2** Press the **AUTO PICTURE** button repeatedly to select either **PERSONAL**, **MOVIES**, **SPORTS**, **WEAK SIGNAL**, or **MULTI MEDIA** picture settings.

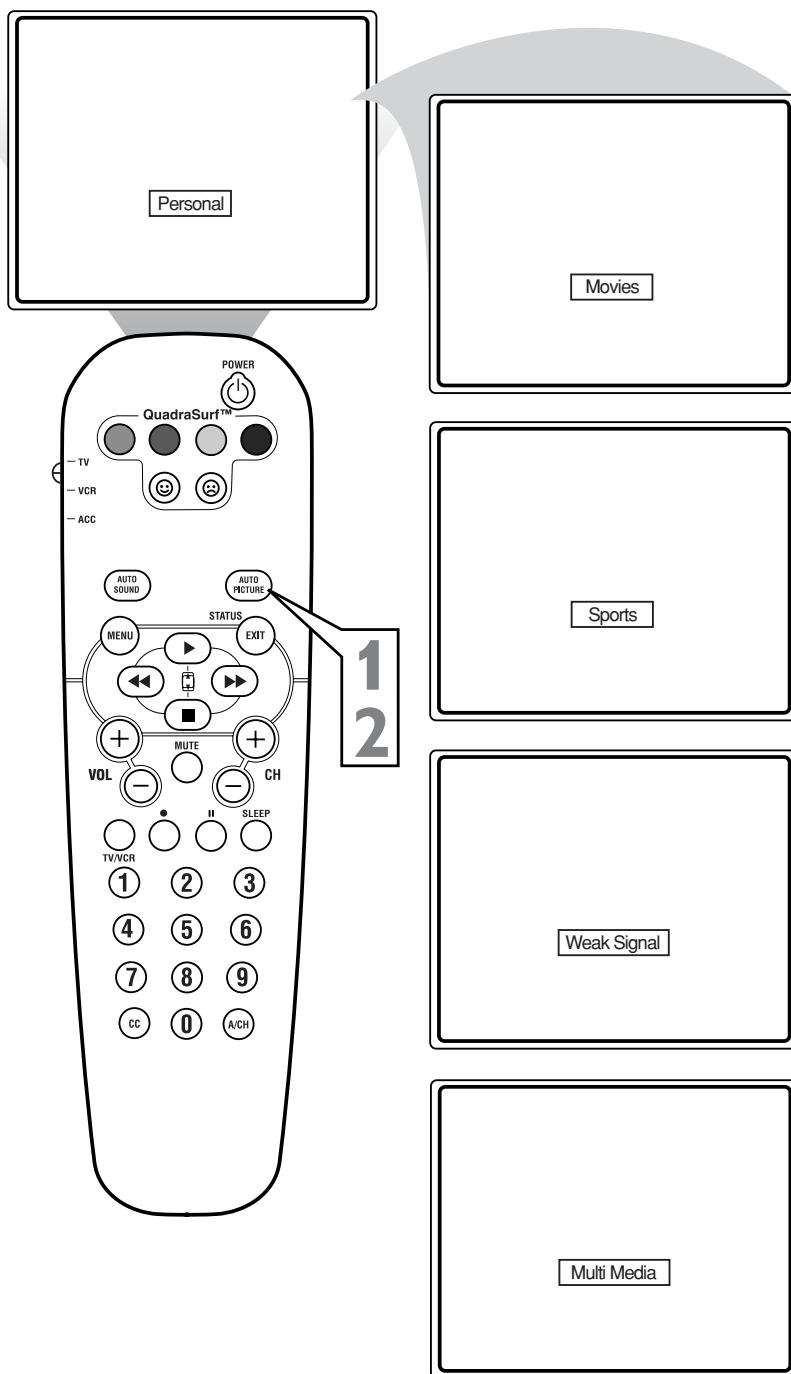
**Note:** The **PERSONAL** setting is the setting that you setup using the **PICTURE** options within the on-screen menu. This is the only Auto Picture setting that can be changed. All other settings are setup at the factory during the time of production.

**MOVIES** - Preset picture options for watching Video Tapes, or DVDs.

**SPORTS** - Preset picture options for watching sporting events.

**WEAK SIGNAL** - Preset picture options for watching programs where the reception is not at its best.

**MULTI MEDIA** - Preset picture options for use with video gaming.







## SETTING THE AUTO SOUND™ CONTROL

The AutoSound™ feature allows the listener to select between four different factory set sound options. *Personal* (which can be set by the user), *Theatre* (for movie viewing), *Music* (for musical type programming) and *Voice* (when the program is mainly dialogue). These settings affect the Sound menu's Bass, Treble, AVL, and Incredible Surround controls. To select any of the options follow the directions below.

**1** Press the **AUTO SOUND** button on the remote control. The current Auto Sound setting will appear in the middle of the screen.

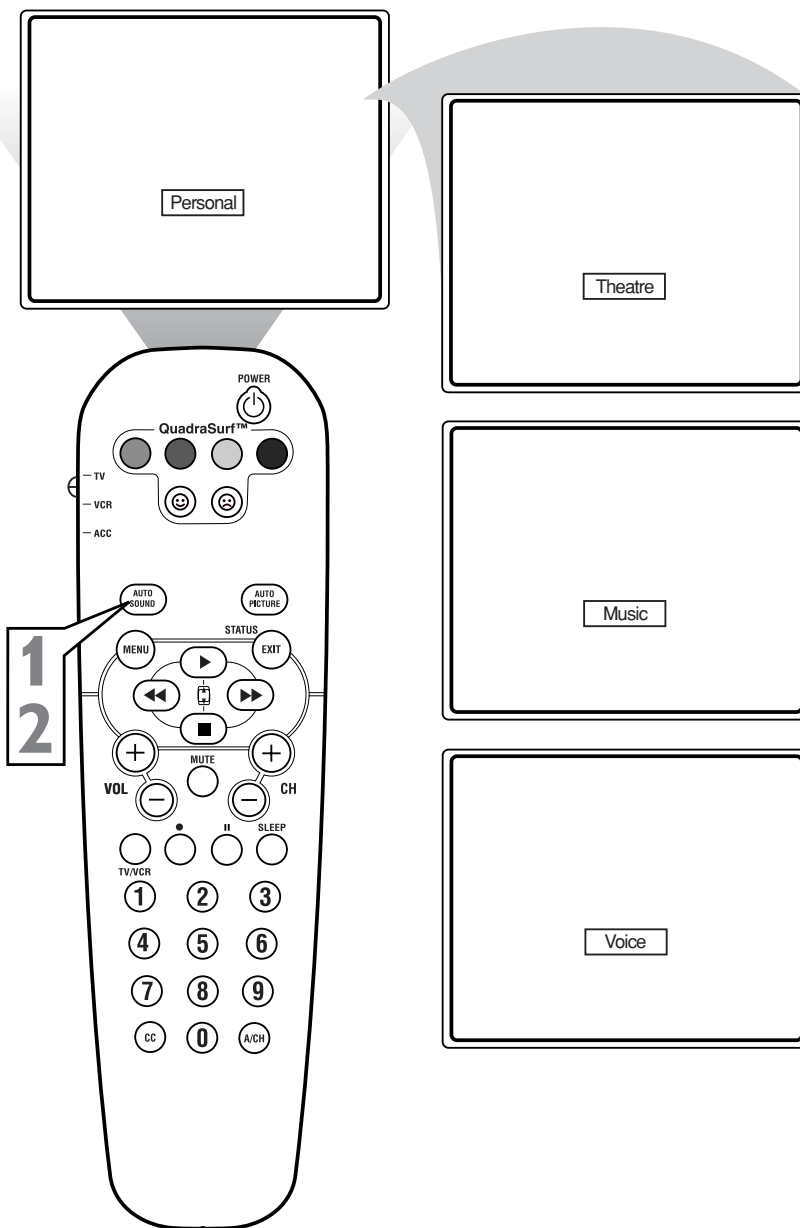
**2** Press the **AUTO SOUND** button repeatedly to toggle between the four settings.

**Note:** Only the **PERSONAL** control can be changed by the viewer. This changes the settings in the main on-screen menu's sound controls.

**THEATRE** - Preset sound options for watching movies.

**MUSIC** - Preset sound options for musical programming where there is little dialogue.

**VOICE** - Preset sound options for programming where heavy dialogue is present.







A “list” or series of previously viewed channels can be selected with the QuadraSurf™ (colored) buttons on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The QuadraSurf™ control allows you set up four different personal Surf lists using the colored buttons (on the remote control), each holding up to ten channels in its quick viewing “list.”

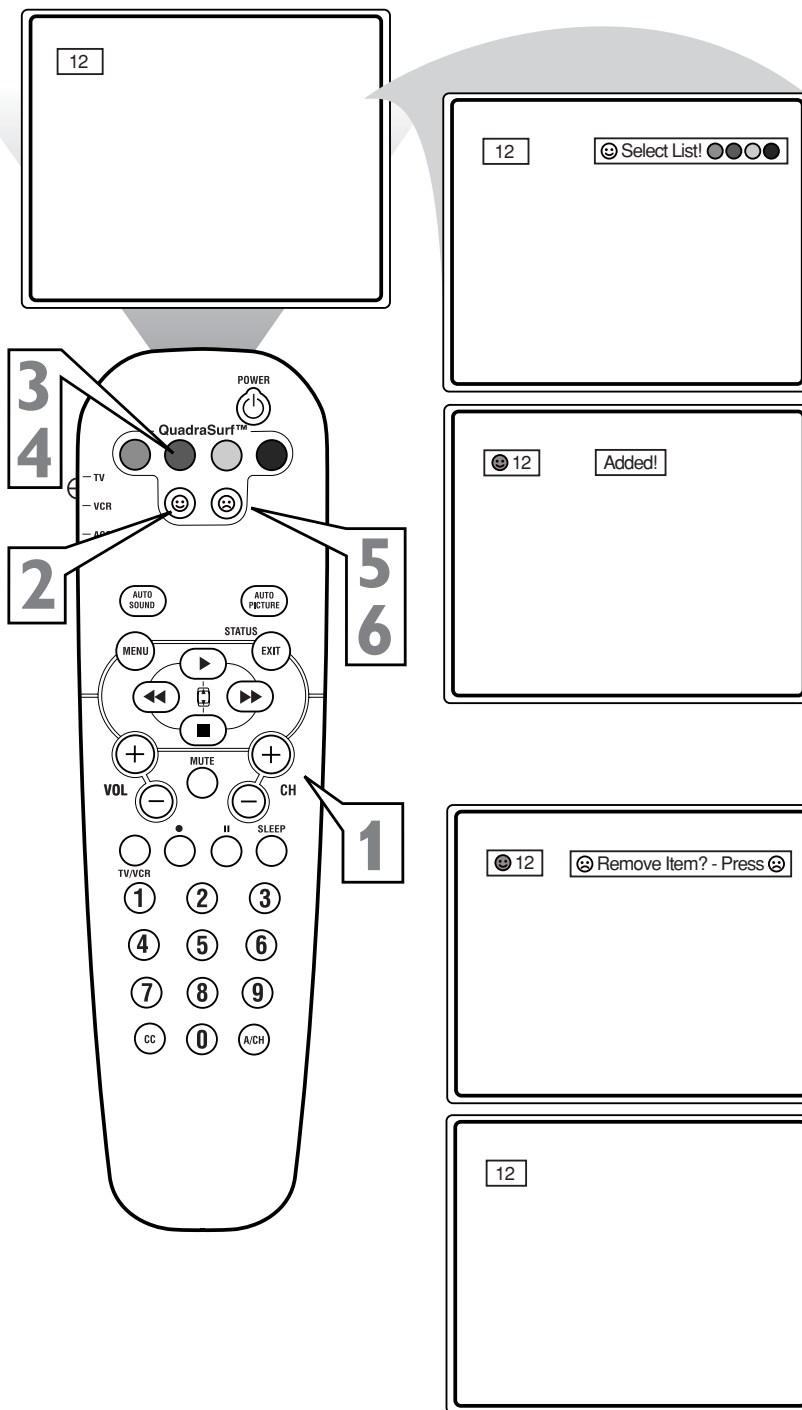
- 1** Press the CHANNEL (+) or (–) buttons (or the NUMBER buttons) to select a channel to add to one of the SURF lists.
- 2** Press the SMILEY ☺ button on the remote control to ADD the channel to one of the SURF lists.
- 3** Press the corresponding COLORED (Red, Green, Yellow or Blue) button to add the channel to that button’s Surf list. (Up to ten channels per button can be stored.)

Repeat steps 1 through 3 to add additional channels (up to 10) to each of the the SURF lists.

**To remove a channel from one of the SURF lists;**

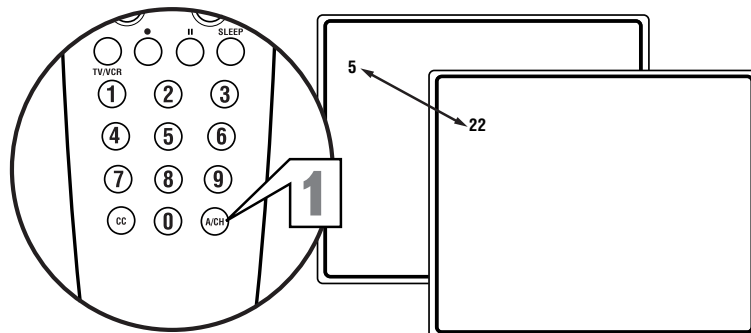
- 4** Press the COLORED QuadraSurf™ button until the desired channel appears. The screen will display the channel number with a colored “Smiley” face to indicate the Colored button it relates to.
- 5** While the “Smiley” face channel indicator is displayed, press the FROWNIE ☹ face button. The screen will read, “Remove item? - Press ☹ .”
- 6** Press the FROWNIE ☹ face button again to confirm your decision to remove the channel from the Surf list.

Repeat steps 4-6 to remove other channels from Surf lists.



## ALTERNATE CHANNEL

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the Current and one previously selected channel.



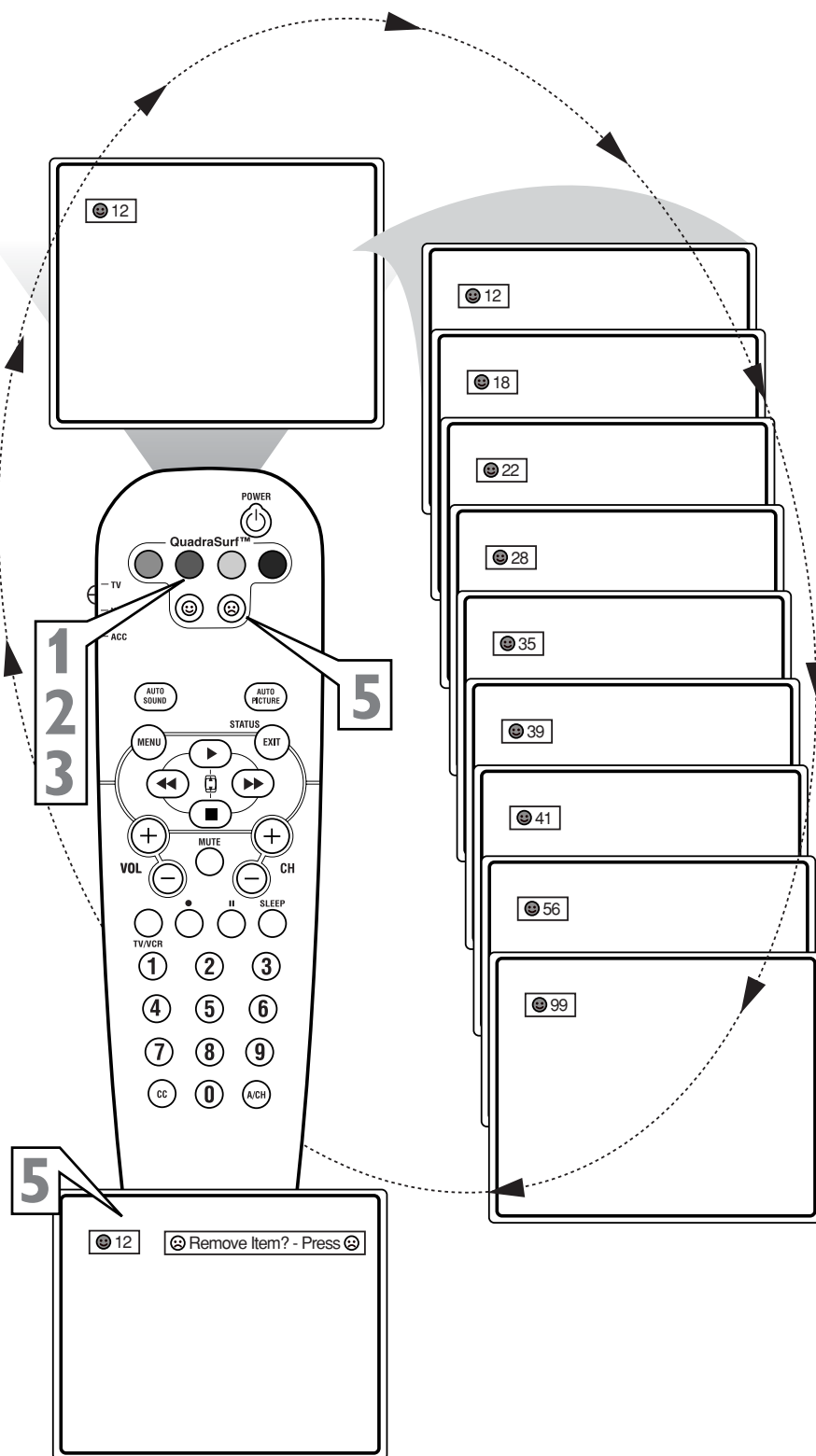


## USING THE QUADRASURF™ BUTTONS

The QuadraSurf™ buttons on your remote control allow you to store up to 10 channels per button (40 total). This is a great feature if you want to store all your favorite Sports channels, Movie channels, or News channels in one surf list. Family members can have their own favorite list of channels. You can even program the external A/V Input jacks (Front channel) for one of the buttons making it a “source” button for your external accessory devices.

Assuming channels have now been added to the four QuadraSurf™ lists (the four colored buttons on the remote, see the previous page), let's review how the feature works.

- 1 Press one of the pre-programmed COLORED buttons** on the remote (Red, Green, Yellow or Blue). The screen will display a smiley face with the first programmed channel for that surf list.
- 2 While the colored “smiley” face still appears on the screen, press the same COLORED button** on the remote to tune the second channel programmed for that specific surf list.
- 3 Repeatedly pressing the same COLORED button** while the “smiley” face appears will tune all the programmed channels for that specific surf list. After the last channel is tuned, pressing the COLORED button again will return you to the first channel in the list.  
If the “smiley” face disappears from the screen and the same COLORED button is pressed, the surf channels will be displayed starting with the FIRST programmed channel again.
- 4 Repeat steps 1-3 for the other three COLORED buttons** (Surf lists) if desired.
- 5 Any time the “smiley” face appears with the channel number, pressing the “frownie” face button** will allow you to remove it from the list (see the previous page for more details).





Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DBS, DVD, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial Direct Access Method to see if going on to the following section is necessary.

- 1** Place the TV/VCR/ACC Mode Switch in the proper position.
- 2** Point the remote control at the device and press the POWER button.

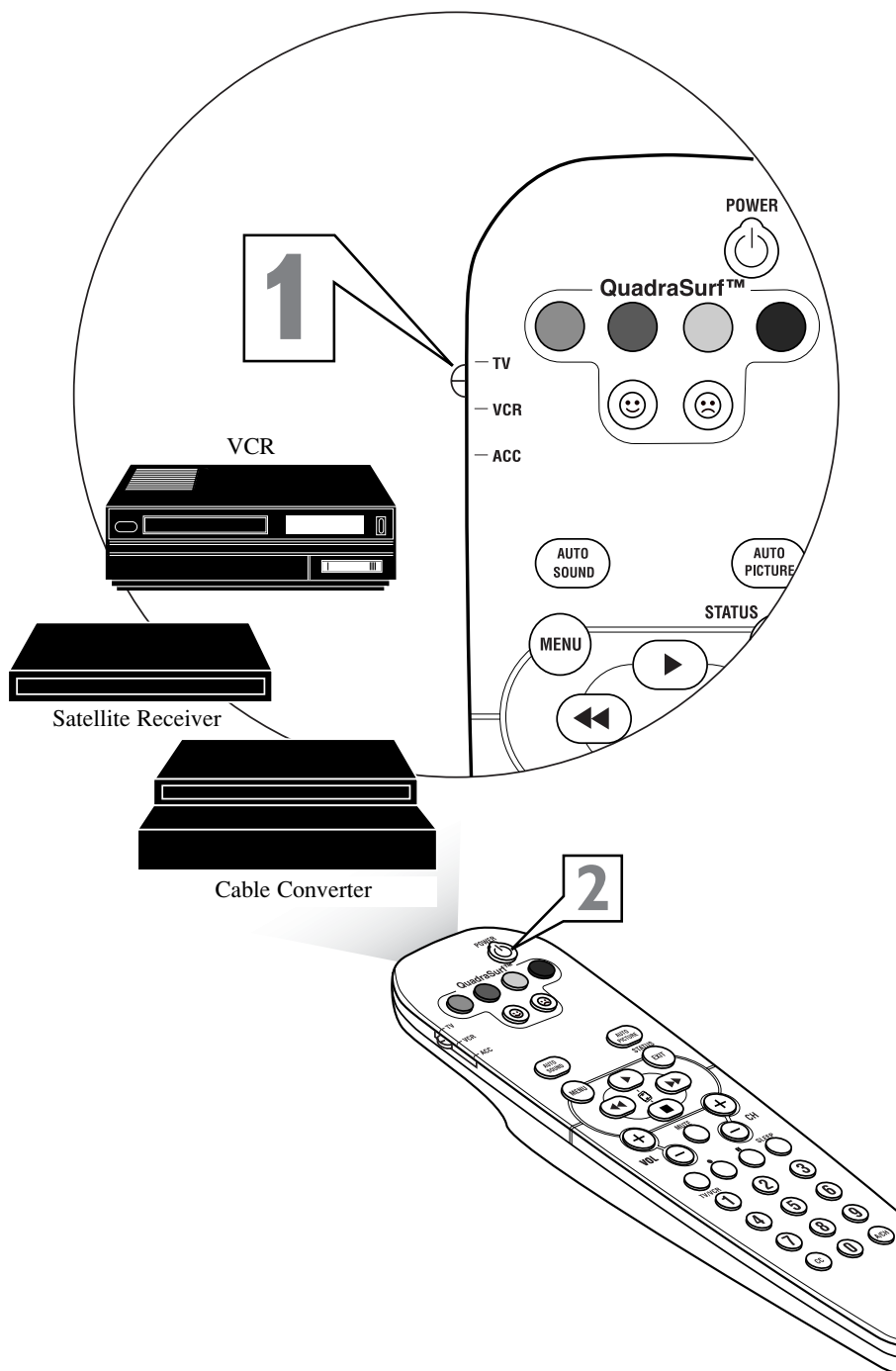
Does the remote turn the device ON?

**If YES**, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

**If NO**, continue...

- 3** First look up a **THREE-DIGIT remote control number** for your brand of Device before going through the simple steps on the following page.

**Find your Three-Digit Code on pages 29-31.**



## HELPFUL HINT

If more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.

**NOTE:** Setting up the remote is for use with external accessory devices only and not for use with other television brands.

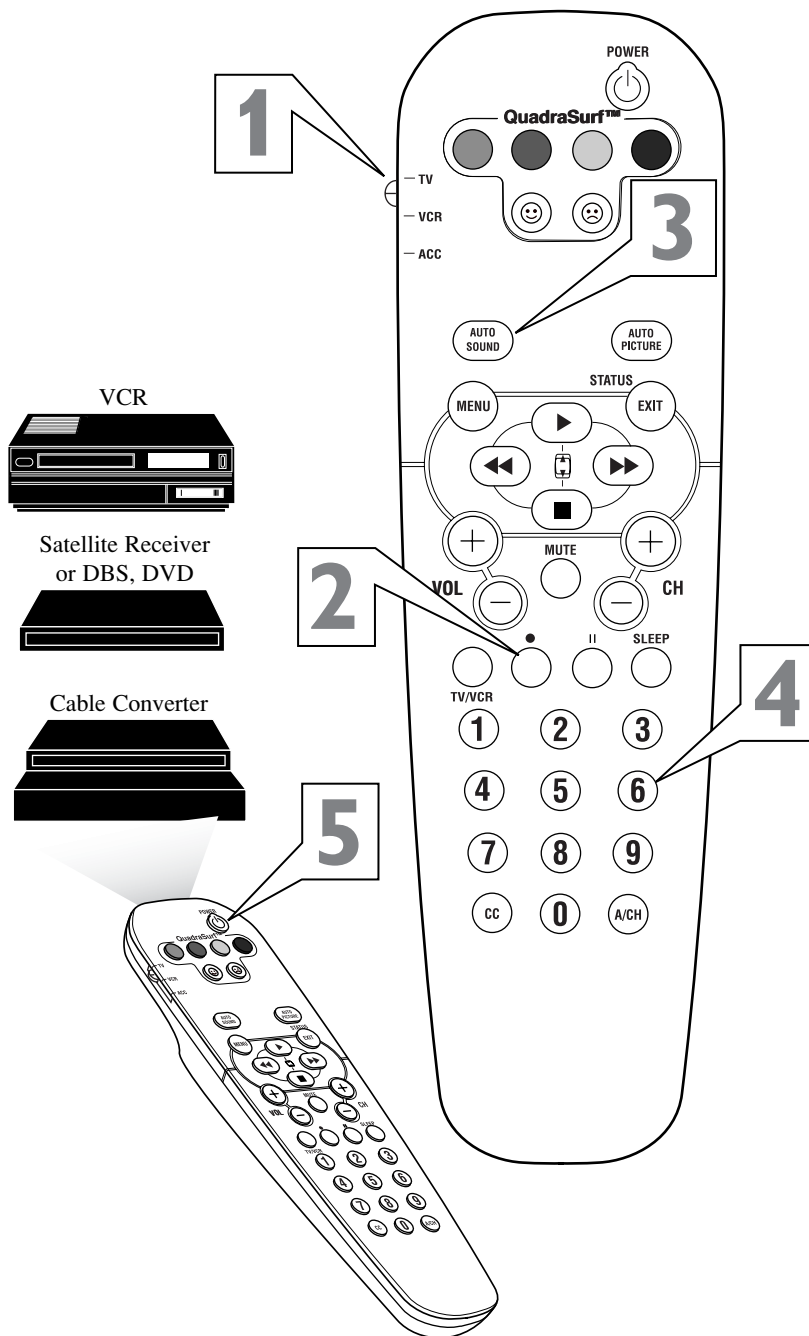


## REMOTE CONTROL USE WITH ACCESSORY DEVICES - CODE ENTRY METHOD

Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

- 1** Place the TV/VCR/ACC Mode Switch in the proper position.
- 2** Press the VCR • RECORD button on the remote control and release.
- 3** Press the AUTO SOUND button on the remote within 30 seconds, then release.
- 4** Enter the THREE-DIGIT REMOTE CODE NUMBER (page 29-31) for your desired device. The remote is now ready to send commands to the unit.
- 5** Point the remote at the Device. Press the POWER button on the remote to turn the unit ON.



### HELPFUL HINT

Remember, if this doesn't work the first time, repeat the steps using a different remote code number.

After a second try and the remote does not operate your device, see if there is another three-digit code number (pages 29-31) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work on your device, try the **SEARCH METHOD** on the next page.

**NOTE:** Setting up the remote is for use with external accessory devices only and not for use with other television brands.

## REMOTE CONTROL USE WITH ACCESSORY DEVICES - SEARCH METHOD



Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, DVD, etc. by what is called the search method of remote control programming.

If the "Remote Code" number method shown on the previous page did not set your remote to work your external device, then follow the easy steps listed below.

Please read steps 1-4 before beginning.

- 1** Press the **POWER** button on the device your are attempting to program to turn it ON.
- 2** Place the **TV/VCR/ACC Mode Switch** in the proper position.
- 3** Press the **VCR • RECORD** and the **AUTO SOUND** buttons simultaneously and hold them down.
- 4** The device will begin to change channels after the remote identifies the correct code. When the channels start to change release the VCR • RECORD and AUTO SOUND buttons. The remote should be ready to operate the device.

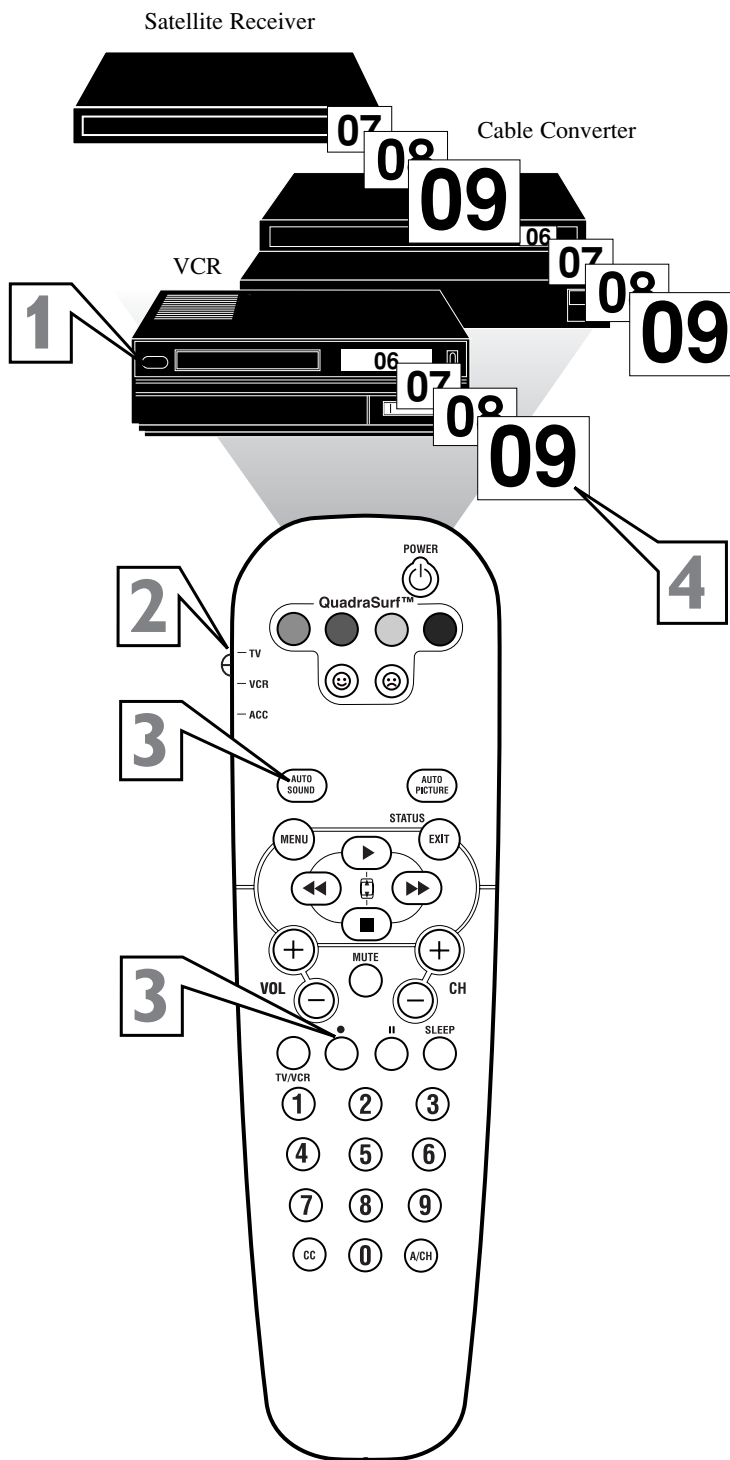
### HELPFUL HINT

This method can take up to two minutes to perform.

Don't let the device scan up more than five channels. If you do the remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work the desired device.

**NOTE:** Setting up the remote is for use with external accessory devices only and not for use with other television brands.





# REMOTE CONTROL DIRECT ENTRY CODES

## VCR CODES

|                   |  |                        |  |                |  |
|-------------------|--|------------------------|--|----------------|--|
| Admiral           | 2027, 2052   | Electroponic           | 2017   | Lloyd's        | 2001, 2051   |
| Adventura         | 2001   | Emerex                 | 2012   | Loewe          | 2004, 2005, 2017, 2035   |
| Aiko              | 2059   | Emerson                | 2001, 2002, 2017, 2023, 2040, 2046, 2051, 2052, 2059, 2078, 2083       | Logik          | 2004, 2034, 2057   |
| Aiwa              | 2001, 2017, 2062, 2070, 2072                               | ESC                    | 2057, 2059   | Luxor          | 2023, 2025, 2027, 2037, 2038   |
| Akai              | 2021, 2029, 2038, 2060, 2063                               | Ferguson               | 2021, 2039, 2064, 2065   | LXI            | 2017   |
| Akiba             | 2034   | Fidelity               | 2001   | M Electronic   | 2001   |
| Alba              | 2011, 2034, 2052, 2059, 2063, 2072                         | Finlandia              | 2035, 2037   | Magnasonic     | 2059   |
| Ambassador        | 2011   | Finlux                 | 2001, 2022, 2035, 2037   | Magnavox       | 2001, 2015, 2019, 2035   |
| American Action   | 2059   | Firstline              | 2017, 2023, 2024, 2034, 2052   | Magnin         | 2057   |
| American High     | 2015   | Fisher                 | 2025, 2026, 2030, 2037   | Manesth        | 2024, 2034   |
| Amstrad           | 2001, 2059, 2067, 2068                                     | Frontech               | 2011   | Marantz        | 2003, 2005, 2015, 2035   |
| Anam              | 2017, 2042, 2054, 2057, 2059, 2082, 2084                   | Fuji                   | 2015   | Marta          | 2017   |
| Anam National     | 2042, 2054, 2087   | Funai                  | 2001   | Matsui         | 2004, 2016, 2036, 2052, 2070, 2072   |
| Anitech           | 2034   | Garrard                | 2001   | Matsushita     | 2015, 2042, 2055   |
| Asa               | 2017, 2035   | GE                     | 2015, 2027, 2032, 2057   | Mei            | 2015   |
| Asha              | 2057   | GEC                    | 2035   | Melectronic    | 2018   |
| Asuka             | 2017   | General                | 2011   | Memorex        | 2001, 2015, 2017, 2019, 2025, 2026, 2027, 2037, 2052, 2057, 2062, 2085, 2087, 2088 |
| Audiovox          | 2017   | Go Video               | 2077, 2081   | Memphis        | 2034   |
| Baird             | 2001, 2021, 2037, 2039                                     | Goldhand               | 2034   | Metz           | 2003, 2005, 2017, 2042, 2048, 2055, 2069   |
| Basic Line        | 2011, 2034, 2059   | Goldstar               | 2017, 2018, 2053, 2079   | MGA            | 2023, 2057   |
| Beaumarck         | 2057   | Goodmans               | 2001, 2017, 2034, 2059, 2075   | MGN Technology | 2057   |
| Bell & Howell     | 2037   | Gradiente              | 2001, 2008   | Mincrva        | 2048   |
| Blaupunkt         | 2003, 2005, 2010, 2014, 2041, 2042, 2048, 2054, 2055, 2075 | Graetz                 | 2005, 2021, 2037, 2057   | Minerva        | 2005, 2010, 2048   |
| Brandt            | 2047, 2064, 2065   | Granada                | 2025, 2035, 2037   | Minolta        | 2022   |
| Brandt Electronic | 2021   | Grandin                | 2001, 2017, 2034   | Mitsubishi     | 2023, 2027, 2033, 2035, 2045   |
| Broksonic         | 2002, 2040, 2046, 2052, 2078                               | Grundig                | 2003, 2005, 2007, 2010, 2034, 2035, 2048, 2050, 2054, 2069, 2071, 2075 | Motorola       | 2015, 2027   |
| Bush              | 2034, 2052, 2059, 2072                                     | Hanseatic              | 2017   | MTC            | 2001, 2057   |
| Calix             | 2017   | Harley Davidson        | 2001   | Multitech      | 2001, 2034   |
| Canon             | 2015   | Harman/Kardon          | 2018, 2035   | Murphy         | 2001   |
| Capehart          | 2011   | Harwood                | 2034   | NAD            | 2031   |
| Carver            | 2035   | HCM                    | 2034   | National       | 2054   |
| Catron            | 2011   | Headquarter            | 2025   | NEC            | 2018, 2020, 2021, 2033, 2037   |
| CCE               | 2034, 2059   | Hinari                 | 2004, 2034, 2057, 2072   | Neckermann     | 2035   |
| CGE               | 2001   | Hi-Q                   | 2026   | Nesco          | 2034   |
| Cimline           | 2034   | Hitachi                | 2001, 2004, 2021, 2022, 2043, 2057                                     | Nikko          | 2017   |
| Cineral           | 2059   | Hughes Network Systems | 2022   | Nikon          | 2014   |
| Citizen           | 2017, 2059   | Hypson                 | 2034   | Noblex         | 2057   |
| Clatronic         | 2011   | Imperial               | 2001   | Nokia          | 2025, 2037, 2038, 2057   |
| Colt              | 2034   | Ingersol               | 2004   | Nokia          | 2021, 2025, 2037, 2038, 2057   |
| Combitech         | 2072   | Interfunk              | 2035   | Nordmende      | 2021, 2061, 2064, 2065, 2074   |
| Condor            | 2011   | ITT                    | 2005, 2021, 2025, 2037, 2038, 2057, 2074                               | Oceanic        | 2001, 2021   |
| Craig             | 2017, 2026, 2034, 2057, 2058                               | ITV                    | 2017, 2059   | Okano          | 2063, 2070   |
| Crown             | 2011, 2034, 2059   | Jensen                 | 2021   | Olympus        | 2015, 2054   |
| Curtis Mathes     | 2015, 2021, 2032, 2042                                     | JVC                    | 2008, 2021, 2033, 2049, 2050, 2074, 2080                               | Optimus        | 2017, 2027, 2031, 2037, 2042, 2077, 2086, 2087, 2088                               |
| Cybernex          | 2057   | Kaisui                 | 2034   | Orion          | 2002, 2004, 2016, 2036, 2046, 2052, 2070, 2072, 2078                               |
| Cyrus             | 2035   | KEC                    | 2017, 2059   | Osaki          | 2001, 2017, 2034   |
| Daewoo            | 2011, 2024, 2025, 2059, 2083                               | Kendo                  | 2038, 2052   | Otto Versand   | 2035   |
| Dansai            | 2034   | Kenwood                | 2018, 2021, 2033   | Palladium      | 2005, 2017, 2021, 2034   |
| Daytron           | 2011   | KLH                    | 2034   | Panasonic      | 2015, 2042, 2053, 2054, 2055, 2087   |
| De Graaf          | 2022, 2043   | Kodak                  | 2015, 2017   | Pathe Cinema   | 2016   |
| Decca             | 2001, 2035   | Korpel                 | 2034   | Pathe Marconi  | 2021   |
| Denon             | 2022   | Layco                  | 2034   | Penny          | 2015, 2017, 2018, 2020, 2022, 2057   |
| Dual              | 2021   | Lenco                  | 2059   |                |  |
| Dumont            | 2001, 2035, 2037   | LG                     | 2079   |                |  |
| Dynatech          | 2001   |                        |  |                |  |
| Elbe              | 2018   |                        |  |                |  |
| Elcatech          | 2034   |                        |  |                |  |
| Electrohome       | 2017   |                        |  |                |  |



## VCR CODES (continued)

|  |   |               |   |                    |   |
|--|---|---------------|---|--------------------|---|
| Pentax                                 | .....2022                                     | Sanky         | .....2019, 2027                               | TEC                | .....2011   |
| Perdio                                 | .....2001                                     | Sansui        | .....2001, 2021, 2033, 2052, 2058, 2078       | Technics           | .....2015, 2042, 2054                                     |
| Philco                                 | .....2015, 2018, 2052, 2078                   | Sanyo         | .....2025, 2026, 2037, 2057                   | Teknika            | .....2001, 2015, 2007, 2017                               |
| Philips                                | .....2015, 2035 (DEFAULT VCR), 2074, 2075     | Saville       | .....2072                                     | Teleavia           | .....2021   |
| Phonola                                | .....2035                                     | SBR 2035      |   | Telefunken         | 2021, 2047, 2058, 2064, 2074                              |
| Pilot                                  | .....2017                                     | Schaub Lorenz | .....2001, 2005, 2021, 2037                   | Tenosal            | .....2034   |
| Pioneer                                | .....2031, 2033, 2035                         | Schneider     | .....2001, 2034, 2035                         | Tensai             | .....2001, 2066   |
| Portland                               | .....2011                                     | Scott         | .....2023, 2024, 2040, 2046                   | Thomas             | .....2001   |
| Profex                                 | .....2066                                     | Sears         | .....2001, 2015, 2017, 2022, 2025, 2026, 2037 | Thomson            | .....2021, 2064, 2074                                     |
| Profitronic                            | .....2057                                     | SEG           | .....2057, 2066                               | Thorn              | .....2016, 2021, 2037                                     |
| Proline                                | .....2001                                     | SEI           | .....2004, 2035                               | TMK                | .....2051, 2057   |
| Proscan                                | .....2032                                     | Seleco        | .....2021                                     | Toshiba            | .....2021, 2023, 2024, 2035, 2074                         |
| Protec                                 | .....2034                                     | Semp          | .....2024                                     | Totelevision       | .....2017, 2057   |
| Pulsar                                 | .....2019                                     | Sentra        | .....2011                                     | Towada             | .....2066   |
| Pye                                    | .....2035                                     | Sharp         | .....2027, 2073                               | Uher               | .....2057   |
| Quarter                                | .....2025                                     | Shintom       | .....2034, 2037                               | Unitech            | .....2057   |
| Quartz                                 | .....2025                                     | Shogun        | .....2057                                     | Universum          | ...2001, 2006, 2010, 2017, 2035, 2038, 2048, 2057, 2067   |
| Quasar                                 | .....2015, 2042, 2087                         | Shorai        | .....2004                                     | Vector             | .....2024   |
| Quelle                                 | .....2035                                     | Silva         | .....2017                                     | Vector Research    | .....2018, 2020   |
| Radio Shack                            | .....2001, 2085                               | Singer        | .....2024, 2034                               | Victor             | .....2008, 2021, 2033                                     |
| Radiola                                | .....2035                                     | Sinudyne      | .....2004, 2035                               | Video Concepts     | .....2020, 2024   |
| Radix                                  | .....2017                                     | Solavox       | .....2011                                     | Videosonic         | .....2057   |
| RCA 2015, 2022, 2027, 2032, 2038, 2057 | Realistic                                     | Sonolor       | .....2025                                     | Wards              | .....2001, 2015, 2022, 2026, 2027, 2032, 2034, 2035, 2057 |
| .....2025, 2026, 2027, 2037            | REX   | Sontec        | .....2017                                     | White Westinghouse | .....2052, 2059   |
| RFT                                    | .....2075                                     | Sony          | ...2001, 2012, 2013, 2014, 2015               | XR-1000            | .....2001   |
| Ricoh                                  | .....2014                                     | STS           | .....2022                                     | XR-1001            | .....2015   |
| Roadstar                               | .....2017, 2034, 2057, 2059                   | Sunkai        | .....2070                                     | XR-1002            | .....2034   |
| Runco                                  | .....2019                                     | Sunstar       | .....2001                                     | Yamaha             | .....2018   |
| Saba                                   | .....2021, 2049, 2050, 2061, 2064, 2065, 2074 | Suntronic     | .....2001                                     | Yamishi            | .....2034   |
| Saisho                                 | .....2004, 2016, 2036, 2052                   | Sylvania      | .....2001, 2015, 2023, 2035                   | Yokan              | .....2034   |
| Salora                                 | .....2023, 2025, 2038                         | Symhonic      | .....2001                                     | Yoko               | .....2011, 2057   |
| Samsung                                | .....2024, 2057, 2076, 2077                   | Tashiko       | .....2001                                     | Zenith             | ...2001, 2014, 2019, 2052, 2078                           |
|  |   | Tatung        | .....2001, 2021, 2035                         |                    |   |
|  |   | Teac          | .....2001, 2021                               |                    |   |

## DIGITAL VIDEO DISC CODES

|               |                       |           |                               |               |                 |
|---------------|-----------------------|-----------|-------------------------------|---------------|-----------------|
| Akai          | .....5316             | Panasonic | .....5301, 5322               | Sony          | .....5306       |
| Harman/Kardon | .....5314             | Philips   | .....5302, 5308 (DEFAULT DVD) | Technics      | .....5301       |
| JVC           | .....5311, 5318       | Pioneer   | .....5305, 5312, 5321         | Theta Digital | .....5312       |
| Kenwood       | .....5307             | Proscan   | .....5304                     | Thomson       | .....5310       |
| Magnavox      | .....5302             | RCA       | .....5304                     | Toshiba       | .....5302       |
| Mitsubishi    | .....5303             | Samsung   | .....5313                     | Yamaha        | .....5301, 5309 |
| Onkyo         | .....5302, 5317, 5319 | Sharp     | .....5320                     |               |                 |

## CABLE CODES

|  |                              |                              |             |                     |                         |
|--|------------------------------|------------------------------|-------------|---------------------|-------------------------|
| ABC . . . . .                            | 3002, 3003, 3004, 3006, 3008 | Decsat . . . . .             | 3027        | Jerrold . . . . .   | 3002, 3004, 3005, 3006, |
| Andover . . . . .                        | 3037                         | Everquesst . . . . .         | 3007        | . . . . .           | 3007, 3020, 3031, 3046  |
| Bell & Howell . . . . .                  | 3006                         | Filmnet . . . . .            | 3028        | LG Alps . . . . .   | 3044                    |
| Birmingham Cable Communication . . . . . | 3020                         | France Telecom . . . . .     | 3030        | Memorex . . . . .   | 3001                    |
| British Telecom . . . . .                | 3002, 3012                   | GEC . . . . .                | 3011        | Mnet . . . . .      | 3009, 3028              |
| Cabletime . . . . .                      | 3016, 3019, 3025, 3029       | Gemini . . . . .             | 3007        | Now . . . . .       | 3041                    |
| Clyde . . . . .                          | 3011                         | General Instrument . . . . . | 3004, 3020, | Oak . . . . .       | 3009                    |
| Contec . . . . .                         | 3009                         | . . . . .                    | 3031, 3046  | Pacific . . . . .   | 3039                    |
| Cryptovision . . . . .                   | 3038                         | Goldstar . . . . .           | 3014, 3047  | Panasonic . . . . . | 3001, 3013              |
| Daehan . . . . .                         | 3043                         | Grundig . . . . .            | 3035        | Paragon . . . . .   | 3001                    |
| Daervung . . . . .                       | 3003                         | Hitachi . . . . .            | 3004        | Pioneer . . . . .   | 3014, 3036              |
|  |                              | Jasco . . . . .              | 3007        | Pulsar . . . . .    | 3001                    |



# REMOTE CONTROL DIRECT ENTRY CODES

## CABLE CODES (continued)

|                          |                  |             |            |              |            |
|--------------------------|------------------|-------------|------------|--------------|------------|
| PVP Stereo Visual Matrix | 3002             | Signal      | 3007       | Toshiba      | 3001       |
| Quasar                   | 3001             | Signature   | 3004       | Tudi         | 3023       |
| Radio Shack              | 3007             | Starcom     | 3002, 3007 | Tusa         | 3007       |
| Rembrandt                | 3004             | Stargate    | 3007       | United Cable | 3002       |
| Runco                    | 3001             | Starquest   | 3007       | Videoway     | 3017       |
| Salora                   | 3026             | STS         | 3015       | Visicable+   | 3033       |
| Samsung                  | 3014, 3040       | Taihan      | 3043       | Westminster  | 3012       |
| Satbox                   | 3024             | Tele+1      | 3028       | Wolsey Gene  | 3037       |
| Scientific               | 3003, 3032, 3049 | Teleservice | 3022       | Zenith       | 3001, 3034 |
| Scientific Atlanta       | 3003, 3008, 3021 | Tocom       | 3005       |              |            |
| Seawoo                   | 3045             | Tongkook 3  | 042, 3048  |              |            |

## SATELLITE CODES

|                          |                                    |              |  |                 |                        |
|--------------------------|------------------------------------|--------------|--|-----------------|------------------------|
| Absat                    | 4006                               | Grundig      | 4008, 4010, 4048                         | Pioneer         | 4021, 4059             |
| Alba                     | 4029, 4034, 4037, 4052             | G-sat        | 4009                                     | Planet          | 4061                   |
| Aldes                    | 4019                               | Hinari       | 4009                                     | Promax          | 4037                   |
| Amstrad                  | 4003, 4016, 4025, 4038, 4039, 4042 | Hirschmann   | 4008, 4032, 4039, 4040, 4049             | Prosat          | 4019                   |
| Ankard                   | 4013, 4019, 4030, 4044             | Hitachi      | 4037                                     | Quadral         | 4029, 4044             |
| Anttron                  | 4009, 4034                         | Houston      | 4053                                     | Radiola         | 4011                   |
| Armstrong                | 4015                               | Huth         | 4013, 4015, 4019, 4026                   | Radix           | 4031, 4064             |
| AST                      | 4027                               | Intervision  | 4050                                     | RFT             | 4011, 4013, 4019       |
| Astra                    | 4005                               | Invideo      | 4061                                     | Saba            | 4023, 4045             |
| Astro                    | 4008, 4039, 4045                   | ITT          | 4005                                     | Sabre           | 4037                   |
| Avalon                   | 4031                               | Johansson    | 4022                                     | Sagem           | 4056                   |
| Axis                     | 4030, 4046                         | JVC          | 4048                                     | Salora          | 4005                   |
| Beko                     | 4010                               | Kathrein     | 4004, 4006, 4008, 4011, 4035, 4041       | SAT             | 4027, 4038             |
| Best                     | 4030                               | Kreiselmeier | 4008                                     | Satcom          | 4026, 4051             |
| Blaupunkt                | 4008                               | Kyostar      | 4034                                     | Satec           | 4009                   |
| Boca                     | 4015, 4043                         | La Sat       | 4043, 4045                               | Satmaster       | 4026                   |
| Brain Wave               | 4022                               | Lenco        | 4034                                     | Satpartner      | 4022, 4034, 4040, 4045 |
| British Sky Broadcasting | 4058                               | Lennox       | 4050                                     | Schwaiger       | 4009, 4041             |
| BT                       | 4053                               | Lupus        | 4030                                     | Seemann         | 4031, 4046             |
| Bush                     | 4002                               | Luxor        | 4005, 4049                               | SEG             | 4030, 4034             |
| Cambridge                | 4024                               | Manhattan    | 4037, 4045, 4050                         | Siemens         | 4008                   |
| Canal Satellite          | 4059                               | Marantz      | 4011                                     | Skymaster       | 4019, 4044, 4051       |
| Canal+                   | 4059                               | Maspro       | 4004, 4023                               | Sony            | 4017, 4018             |
| Channel Master           | 4029                               | Matsui       | 4024, 4048                               | Strong          | 4062                   |
| CNT                      | 4045                               | Mediamarkt   | 4015                                     | Sunstar         | 4043                   |
| Comlink                  | 4019                               | Mediasat     | 4059                                     | Tantec          | 4023, 4037             |
| Connexions               | 4031                               | Minerva      | 4048                                     | Techniland      | 4026                   |
| Crown                    | 4015                               | Morgan's     | 4015, 4043                               | Technisat       | 4001, 4039             |
| Cyrus                    | 4011                               | Navex        | 4022                                     | Telefunken      | 4034                   |
| D-Box                    | 4054                               | Neuhaus      | 4039                                     | Teleka          | 4015, 4052             |
| DDC                      | 4029                               | Neusat       | 4057                                     | Telesat         | 4051                   |
| DNT                      | 4011, 4031                         | Newhaus      | 4013                                     | Thomson         | 4037, 4059             |
| Echostar                 | 4031, 4036, 4061                   | Nokia        | 4005, 4032, 4037, 4049, 4054, 4063       | Tonna           | 4026, 4053             |
| Emanon                   | 4034                               | Nordmende    | 4029                                     | TPS             | 4056                   |
| Ferguson                 | 4002, 4009, 4010, 4023             | Orbitech     | 4039                                     | Triad           | 4027                   |
| Fidelity                 | 4016                               | Oxford       | 4024                                     | Triasat         | 4040                   |
| Finlux                   | 4005, 4024, 4032, 4037             | Pace         | 4002, 4009, 4014, 4023, 4037, 4055, 4058 | Unitor          | 4022                   |
| Fracarro                 | 4061                               | Palladium    | 4048                                     | Universum       | 4008, 4049             |
| Freecom                  | 4034                               | Palsat       | 4039                                     | Ventana         | 4011                   |
| FTE Humax                | 4060                               | Panda        | 4037                                     | Vortec          | 4034                   |
| Fube                     | 4030, 4031, 4034                   | Philips      | 4007, 4011, 4020, 4037, 4048, 4059       | Vtech           | 4027                   |
| Galaxis                  | 4019, 4057, 4060                   | Phonotrend   | 4019, 4050                               | Winersat        | 4022                   |
| General Instrument       | 4012                               |              |  | Wisi            | 4008, 4027, 4031, 4037 |
| Gold Box                 | 4059                               |              |  | Xcom Multimedia | 4065                   |
| Gooding                  | 4048                               |              |  | Xsat            | 4006, 4065             |
| Goodmans                 | 4010                               |              |  | Zehnder         | 4033, 4045             |



## REMOTE CONTROL VCR RELATED BUTTONS



When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

**1** Set the TV/VCR/ACC mode switch to VCR on the remote.

**2** Point the top of the remote toward the front of the VCR (remote sensor window) when pressing the buttons.

### VCR SYSTEM SWITCH

Set in the VCR position to send remote commands to the VCR.

### PLAY BUTTON ►

Press to begin playback of a video tape.

### REWIND BUTTON ◀◀

Press to rewind tapes. For some VCR's the STOP button may have to be pressed first, then REWIND. In playback mode hold down the button to view picture moving rapidly in reverse.

### TV/VCR BUTTON

Press while in the VCR mode (VCR indicator on the front of the unit will light) to view the playback of a tape. Press again to place in the TV position (VCR indicator light will go off) to view one program while recording another program. When used in the TV mode, the TV/VCR button will have no functionality.

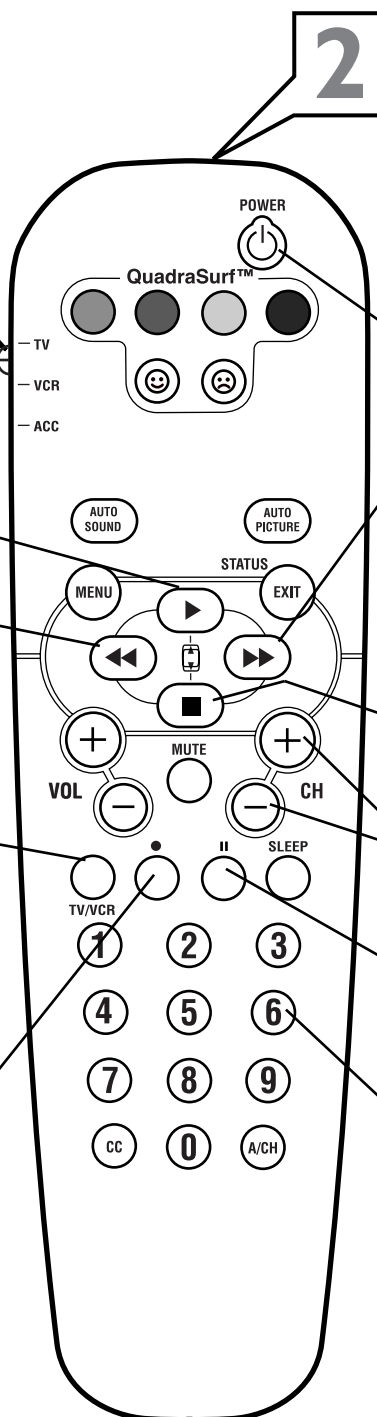
### RECORD • BUTTON

Hold the VCR • RECORD button down to begin a VCR recording.

### HELPFUL HINT

The VCR buttons on the remote will not operate your VCR if those features are not found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.



### POWER BUTTON

Press to turn the VCR ON and OFF.

### FAST FORWARD BUTTON ►►

Press to rapidly advance the tape. For some VCR's you may need to press the STOP button first, then the FAST FORWARD button. In playback mode hold the button down to view the picture moving rapidly in the forward direction.

### STOP BUTTON ■

Press to stop the motion of a tape in playback, rewind, fast forward, etc.

### CHANNEL + & - BUTTONS

Press to scan up or down through the VCR channel numbers.

### PAUSE BUTTON II

Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

### NUMBER BUTTON

Press buttons for direct VCR channel selections.



## TROUBLESHOOTING

### No Power

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Check that the outlet is not on a wall switch.
- Be sure the fuse is not blown on the AC power strip, if one is being used.

### No Picture

- Check antenna connections. Are they properly secured to the TV's ANT 75Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the AV button on the remote to make sure the correct signal source is selected (FRONT or Current Channel).

### No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections located on the front of the TV.

### TV Only Produces MONO Sound

- If using a cable box with RF only type connections, the signal coming from the cable box will be produced in MONO only.
- Check Sound control setting. Change setting to Stereo.

### Remote Does Not Work

- Check the batteries. If necessary, replace them with AA Heavy Duty (Zinc Chloride) or Alkaline batteries.
- Clean the remote control and the remote control sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Be sure the fuse is not blown on the AC power strip, if one is being used.
- Check to be sure the TV outlet is not on a wall switch.

### TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory.
- Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.

**WARNING Concerning Stationary Images on the TV Screen:**

**Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven picture-tube aging.**

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Sources of stationary images may be DVD disks, laser disks, video games, CD-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):**

- **DVD menus**—listings of DVD disk content
- **Letterbox black bars**—shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- **Video-game images and scoreboards**
- **Television station logos**—present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers**—presented at the bottom of the TV screen
- **Shopping channel logos and pricing displays**—bright and shown constantly or repeatedly in the same location on the TV screen.

**PLACEMENT OF THE TV**

- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

**CLEANING**

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.



## GLOSSARY OF TERMS

**Auto Programming** • The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

**Coaxial Cable** • A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

**Closed Caption** • Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

**Side Audio/Video Inputs** • Located on the side of the TV these connectors (phono type plug) are used for the input of audio and video signals. Designed for easy use with VCRs or cameras.

**On Screen Displays (OSD)** • Refers to the wording or messages generated by the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

**Menu** • An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

**Quadra Surf** • The feature that allows the programming of four separate Surf lists holding up to 10 channels each.

**Remote Sensor Window** • A window or opening found on the Television control panel through which infrared remote control command signals are received.

**Status/Exit** • Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

**Surf** • The action of scanning specific channel in a limited channel list.

**Twin Lead Wire** • The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

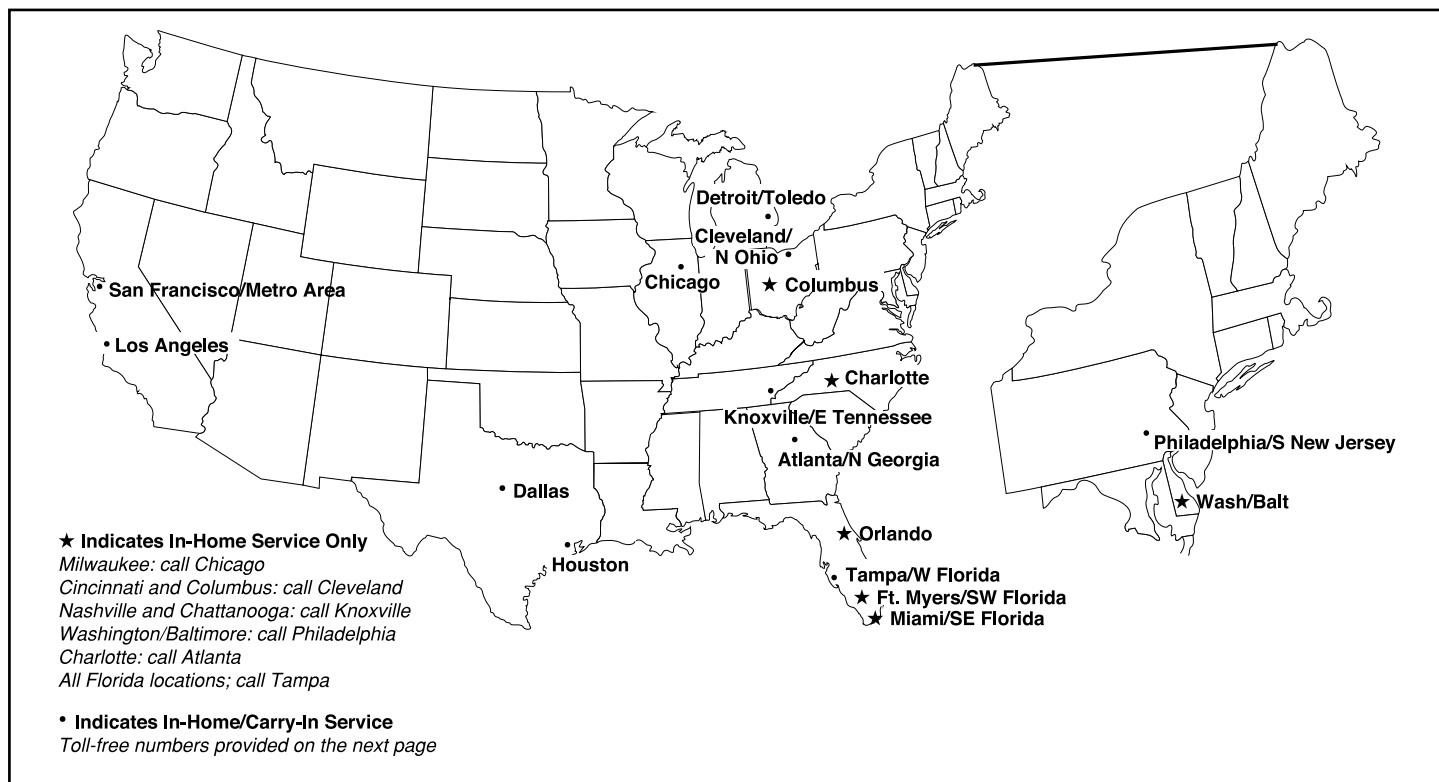
**Tuner Mode** • Feature control settings made by the TV. Designed for first time set up and use. Settings for signal connections (antenna or cable TV), plus channel program memory are held in the TV's memory (even if the set is unplugged and moved to a new location.)



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## FACTORY SERVICE LOCATIONS



**NOTE:** If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

**NOTA:** Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

**NOTA:** Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

### In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at

1-800-661-6162 (French speaking)

1-800-531-0039 (English or Spanish speaking)

### Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips à:

1-800-661-6162 (Francophone)

1-800-531-0039 (Anglais ou Espagnol)

### En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio

Favor de comunicarse con Philips al:

1-800-661-6162 (francófono)

1-800-531-0039 (Inglés o Español))

## FACTORY SERVICE LOCATIONS



**QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE.**

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

### **ATLANTA**

Philips Factory Service  
550 Franklin Road., Suite F  
Marietta, GA 30067  
800-273-1501

### **TAMPA**

Philips Factory Service  
1911 US Highway 301 North, Suite 100  
Tampa, FL 33619  
800-442-2027

### **SAN FRANCISCO**

Philips Factory Service  
681 East Brokaw Rd.  
San Jose, CA 95112  
800-300-9013

### **HOUSTON**

Philips Factory Service  
1110 N. Post Oak Rd., Suite 100  
Houston, TX 77055  
800-952-3254

### **CLEVELAND**

Philips Factory Service  
950 Keynote Circle  
Brooklyn Heights, OH 44131  
800-331-7037

### **DETROIT**

Philips Factory Service  
25173 Dequindre  
Madison Heights, MI 48071  
800-438-1398

### **DALLAS**

Philips Factory Service  
415 N. Main Street, #107  
Euless, TX 76040  
800-952-3254

### **LOS ANGELES**

Philips Factory Service  
20930 Bonita, Ste. V  
Carson, CA 90746  
800-300-9013

### **CHICAGO**

Philips Factory Service  
1279 W. Hamilton Pkwy.  
Itasca, IL 60143  
800-531-2922

### **KNOXVILLE**

Philips Factory Service  
One Philips Drive  
Knoxville, TN 37914  
800-821-1767

### **PHILADELPHIA**

Philips Factory Service  
352 Dunks Ferry Rd.  
Bensalem, PA 19020  
800-847-9320



## LIMITED WARRANTY

### COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product can be repaired in home.

#### WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

#### WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter*, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

#### WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

#### WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

#### MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

#### BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

#### TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

#### TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

**1-800-661-6162** if calling from Canada (French speaking)  
**1-800-531-0039** (English or Spanish speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

#### REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # \_\_\_\_\_

SERIAL # \_\_\_\_\_

*This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.*

**Philips, P.O. Box 520890, Miami, FL 33152, (402) 536-4171**